

TELEGRAMS: "CHEMICUS, CANNON, LONDON" (2 Words)

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4. DIARY 20/- PER ANNUM SINGLE COPIES 9d.

No. 2137

JANUARY 8, 1921.



BEST HOUSE FOR ALL THE PHARMACEUTICAL **PRODUCTS**

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co. TELEGRAMS: "OPIUM." MANCHESTER.

llenburys **QUID BEEF**

contains the soluble albuminoids and extractives of prime lean beef in an easily assimilable form

In bottles with cartons, retailing at 316.



A good selling line, showing 25º | profit.

Invaluable as a Stimulant in Sickness and in Convalescence

ALLEN & HANBURYS. IF 37, LOMBARD ST, LONDON, E.C.





GENUINE IMPORTED

The public demands a genuine imported American Liniment,

Why not give it them?

May, Roberts' Genuine Imported U.S.A. American Liniment, selling at 1/3 and 2/-, satisfies this condition, and will satisfy the seller also as it is on the P.A.T.A. List at a profit on turnover of

39°/_o

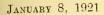
1/3 size - 10/6 per doz. 2/- size - 17/6 per doz. 5 % Discount.

BONUS TERMS.—Thirteen to the dozen and Chemist's own name and address on three dozen lots. £2 worth Carriage Paid. Free Cases.

MAY, ROBERTS & CO., LIMITED

7/13 Clerkenwell Road - - LONDON, E.C. 1

And at DUBLIN and PLYMOUTH.





MANUFACTURED ENTIRELY IN OUR OWN LABORATORIES

MARSHALL'S

Lysol



THE fact that our 1920 sales greatly exceeded those of 1919 proves that the public do discriminate between sound products and dubious ones.

MARSHALL'S LYSOL

-the only genuine—will continue to dominate and excel all others. Recent trials and experiments prove that pharmacists need exercise care in buying "Lysol."

By ordering and insisting on Marshall's "L" Brand from the wholesaler, he will ensure satisfaction, fixed prices and fair profits.

LYSOL LTD., Raynes Park, LONDON, S.W.19

Telegrams:
"Lysolant, Cotten, London."

Telephones: Wimbledon 339/340

Carbolic Acid Crystals Cresylic Acid, all grades

ORTHO-CRESOL, 28/30°C.

META-CRESOL, 60%, 75/80%, 98/100%

PARA-CRESOL, 31/33°C.

Phthalic Anhydride Anthranilic Acid

Saccharin Monsanto (British Made)

WORKS: RUABON N.WALES.

London Office: 62, London Wall, E.C., 2.

Salicylic Acid

Sodium Salicylate

Aspirin

Salol

Phenacetin

Vanillin

Acetanilide

Coumarin

Phenolphthalein

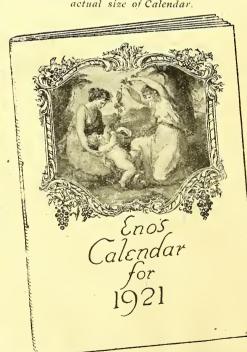
Chloral Hydrate

Glycerophosphates

Graesser-Monsanto & Graesser-Monsanto & Graesser-Monsanto & Graesser-Monsanto

Would YOU like a FREE Supply of these Dainty Eno Calendars for Your Customers?

This illustration shows actual size of Calendar,



HE ENO Pocket Calendars for 1921 are now ready for distribution amongst ENO retailers. These calendars, which are attractively printed in two colours, form very useful and acceptable New Year gifts for your customers, and will do much towards fostering and maintaining that spirit of goodwill which is so vital to the progress of your business.

If you require a FREE supply of ENO Calendars, please send a post-card without delay to the SALES MANAGER, J. C. ENO, Ltd., Blackfriars House, New Bridge St, London, E.C.4. Applications will be dealt with in rotation, but preference will be given to retailers who have displayed ENO in their windows during the past year, and to those who intimate that they will do so in 1921.

ENO'S FRUIT SALT

Brings Health to your Customers and PROFIT to your Business.

For Trade Terms, Advertising Material and details of our SPECIAL WINDOW DISPLAY OFFER, please write to the SALES MANAGER, J. C. ENO, Ltd., Blackfriars House, New Bridge Street, London, E.C.4.

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Fire, Burglary, Workmens Compensation, Plate Class, Public Liability, Third

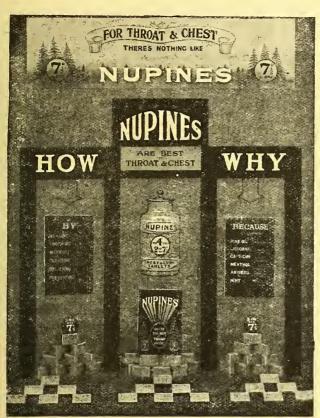
Party Drivers, Loss of Profits, Loss of Rent. Riot & Civil Commotion Bursting Waterpipes, Storm, Flood, and Tempest, ANNUAL BONUSES

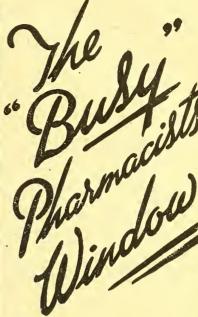
The Licences & General Insurance @ Lto

Victoria Embankment Next Temple Stn. W.C.2

FUNDS EXCEED £500,000.

FOUNDED 1890





THEY COST 28 lb. 2/1 lb.; 56 lb. 2/- lb.; 1 cwt. 1/11 lb.

COMPLETE SHOW & 200 CARTONS FREE with 56 lb.

The World's Pine Tablet

There must be a reason why we make and sell so many tons of this popular Pine Tablet. In fact, there are several: Pleasant to the taste; do not break up in the mouth but slowly dissolve right down to a wafer; a window display that talks the goods; and last, but not least, a good guaranteed profit for YOU.

Displays now running in nearly every town in the United Kingdom. a good stock.

MORLAND RIGHT . L



NR LEEDS

Why it pays to push John Bond's "Crystal Palace" Marking Ink (P.A.T.A.)

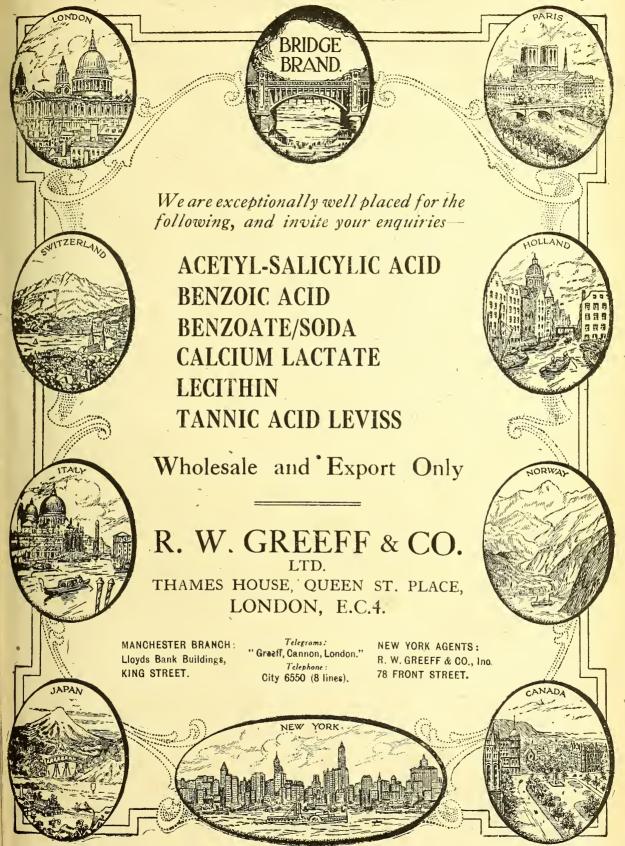
Observe the Marking Ink situation. The only well-known brand rigidly protected at face-value is "John Bond's," a straight 6d. and 1/- line. The public buys more "John Bond's" every year. A word of suggestion will often sell a bottle: marking ink is one of the things of which people need to be reminded, and they will always take "John Bond's." Your wholesale house keeps it; 6d. size, 4/3 doz. (30 % profit); 1/- size, 8/- doz. (33\frac{1}{3}\% profit).

John Bond (London) Ltd., 75 Southgate Road, London, N. 1.

Wholesale Terms.

Minimum—I gross 6d., 44/- or Mixed order to same value, 1 gross 1/-, 80/-; subject to customary discount on quantities. £2 2s. 0d. and up carriage paid







Announcement to Retailers.

ADCO DYES are about to be advertised extensively in important newspapers and representative ladies' papers of wide influence. This advertising to the public is to be persisted in until Nadco Dyes are known thoroughly and established as a necessity in the household.

Nadco Dyes are the result of many years' experience in dye making and dyeing, and have been pronounced by eminent experts "the most wonderful dyes in the world," simply because of the unvarying perfect work they produce for home dyers—results which rival the professional dyers' work.

Because Nadco Dyes are sure to afford satisfaction to the users of them, goodwill of considerable value will be created thereby for all retailers who stock and distribute these dyes.

PROFITS in Nadco Dyes are very generous, and the rapid turnover—caused by the great merit of this product and stimulated by the consumer advertisin,—will build up an ever-growing trade that will prove most gratifying.

Nadco Dyes retail for 1/-. You get 25% on the selling price, and if ordered in 1 gross quantities 5% extra.

Order from your Wholesaler, or

The

British Harold F. Ritchie & Co. Ltd. 33 Farringdon Road, London, E.C. 1.



Retails at

1/
per Packet
P.A.T.A.

It is suggested

that Nadco be ordered in the gross assortment, packed in the Counter Display Case (illustrated below). This Case contains a complete line of colours, which can be filled out easily as certain colours are exhausted through sales made.

Each

COUNTER DISPLAY CASE

contains the following gross assortment of

NADCO DYES

in the 20 beautiful, Fast Colours.

doz. Pink doz. Light Blue Old Rose (ld Blue • Scarlet Navy Blue ,, Cardinal $\frac{1}{1}$, Black Wine Grey Taupe Sand Heliotrope Yellow 74 Orange Orange $\frac{1}{2}$ Light Brown $\frac{1}{2}$ Purple ,, Light Green Dark Brown I ,, Dark Green

1 COLOUR CARD

NOFE.—The Colour Card should always be kept with the isplay Case, where customers can see it quickly and can consult it freely. The beautiful samples of actual Nadco dyeing go far in making Nadco sales.

Your wholesaler can supply Nadco Dyes in the Display (ase without extra charge. Insist upon having your first order packed in this way.



Maws

January 8, 1921



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No. 482

Proof Positive of "Parex" Success

A REPRODUCTION of a letter from one of our customers who has tested the sales possibilities of "Parex" Manicure Methods for himself. We feel that comment is unnecessary.

From Mr G. S. Galloway. M.P.S., Colmore Row, Birmingham.

Dear Sirs.,
Will you please send me two gross Parex Bijou
Sets at your earliest convenience, tomorrow if possible.

I am particularly pleased with my sales of these sets during the past three months. I have only given them one good show, for ten days, and then I sold 101. I have since sold over two gross, and the special order of one gross which I received about three weeks age for my Xmas sales has been sold with the exception of about twenty.

I am now selling regularly about twenty per day, and this without a window dieplay, and all my cuetomers express their great satisfaction with the effeciency of the products, and repeats for the larger sizes are going very well.

Wishing you success in your "Maws for the Pharmacist" campaign,

Yours faithfully,

S. Maws, Son & Sons. Ltd., Albany House Dalton Street, Birmingham.

City 7
Private
Branch
Exchange

Telegrams: Eleven Cent

S. Maw, Son & Sons, Ltd. London, England. Cables: Eleven London Code A.B.C. 448.54 Edition GARARAKAKAKAKAKAKAKAKAKAKAKA

GALLOWAY'S COUGH SYRUP

(ON THE P.A.T.A.)

which is well known to the public, is now being Extensively Advertised in the Daily Press.

Chemists will steadily increase the number of their customers by making it known that they stock this preparation. This can be done by taking advantage of our Special Window Display Offer.

BUY ON THE BEST TERMS and make 36\\\^4\% PROFIT on your Turnover.

Protected Prices 1/3 and 2/6 per Bottle.

Below is an Illustration of the advantage you gain by Buying on the Best Terms:

3 doz! 2/6 Cough Syrup, at 24/- doz. 3 ,, 1/3 ,, ,, 12/- ,;	£3 12 1 16		Sells for	•••	£4 2	10 5	0
-10 % Discount for £5 order	5 8 10	0 9½	-		6	15	0
10 % Discount for Window Display	4 17 9	2½ 8½	Net Cost		4	5	4
$2\frac{1}{2}$ % Discount for C.O.D	4 7 2	6 2	Actual Net	Profit,	£2	9	8

FAMILY LUNG SYRUP

Net Cost £4

also has a tremendous Sale. Good Profits assured to Retailers, and we would urge them to take full advantage of our Advertising Campaign.

	RETAIL PR	WHOLESALE PRICE.								
$2\frac{1}{2}d.$	BOTTLES	Sample		·		24/-	gross	' PRICE.		
4d.	99	Sizes				36/-	,,,	5% Discount off £5		
$8\frac{1}{2}$ d.	,,	Each	• • •			-,-	dozen			
1/4	,,	in				12/-	,,			
1/11	9 9	Carton	• • •	• • •	• • •	17/6	**	be Assorted.		

10% Discount allowed for Window Shows if £5 order is taken.

2½% Discount for Cash on Delivery.

P. H. GALLOWAY, LTD., Manufacturing Chemists,

WALWORTH ROAD, LONDON, S.E. 17.

Telegraphic Address: "Tasteless, Walroad, London." Telephone: Hop 3497 (2 lines).

POWELL'S THERMOMETER CO. SUGGEST SOME

THERMOMETER "DON'TS" for 1921

- **DON'T** imagine compulsory testing has made the quality of all clinicals equal.
- **DON'T** forget that our efforts to satisfy you before the compulsory test are still put forth to retain your confidence.
- **DON'T** allow a customer to call a thermometer inaccurate without due investigation, seeing that a large proportion of the lay public do not know how to take a temperature correctly.
- **DON'T** forget our ordinary plain clinical No. 1, or with magnifying lens, No. 01, are the most satisfactory for family use. Compared with the One Minute they are easier to read, easier to shake down and will register, when correctly used, almost as quickly, while the price is much less.
- **DON'T** forget that we are manufacturers and do not sell imported Thermometers.
- DON'T pass inquiries for Insulated and Stem Chemical Thermometers, Brewers', Dairy, Engine Room, Refrigerator, Sugar Boilers' and Ward Thermometers, Twaddles, and Proof Spirit Hydrometers and Urinometers, but send to us: we make them.
- DON'T please forget the address, or that we are the sole makers of the High-Grade
- "EASY," "V. O. S." and "DOUBLE-EASY" CLINICALS.

POWELL'S THERMOMETER CO., 55 HATTON GARDEN, LONDON, E.C.1.

Telephone: Holborn 1185.

Telegrams: "Thermoclin, Phone, London."



Current Advertising

In the margin are reduced reproductions of a few advertisements appearing in the most suitable newspapers and magazines.

For you the obvious question is

Am I getting my full share of the increased demand?

Unless you are making bold counter and window displays, the answer is probably in the negative. People are more apt to buy an advertised article when and where they see it displayed. The window show acts as a reminder at precisely the right time—that is, when the customer is just outside your pharmacy.



Kills dental decay germs within 30 seconds.

Chillie Preparations

will be in frequent demand during the winter months for the treatment of Rheumatism, Coughs, Colds, Chilblains, etc.

We offer for your consideration the following lines, each perfect in content and finish:—

Chillie Embrocation

A penetrating liniment which contains, in addition to the usual embrocation ingredients, the stimulating irritant properties of selected capsicum berries.

Two sizes, well labelled and cartoned.

Per dozen ... 4oz. 11/6 8oz. 19/-

Chillie Paste

Largely used for the treatment of unbroken Chilblains.

Packed in 2oz. screw-capped glass jars, neatly labelled and cartoned.

Per dozen 9/-

Chillie Wool

In great demand for the treatment of Coughs, Colds, Bronchitis, Asthma, etc.

Small size ... per dozen 7/
Large ... 12/6 per gross 78/
144 -

We can also supply an alternate packing -"Thermal Wool."

Name and address can be printed on orders for not less than three dozen of any of the above preparations.

Showcards supplied free on request.

London Agents for

Ayrton
Toilet Articles and
Household Remedies

J. C. GAMBLES & CO. 49 FARRINGDON STREET LONDON, E.C. 4

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists

LIVERPOOL.

For JUST what YOU WANT

N

GLASSWARE

OF EVERY DESCRIPTION and FOR ALL PURPOSES

JULES LANG & SON hold stocks in the Provinces ready for immediate delivery, and in their North and West London Depots.

No other firm can claim to hold such a general stock in the Kingdom. NEARLY all your needs can be met on request: Limes, Medicals, Vials, Tobins, Mexicans, Cheltenhams, Male and Ear Syringes, Kalis, Opal Pomades, Flint Pomades, Smelling Salts, Panels, Cannons.

For the convenience of London customers who have not the accommodation we are prepared to deliver bottles washed.



Kali



Lime



Medical

Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels and many other lines in Chemical and Laboratory Glassware.





Two-ended Feeder.

SPECIAL NOTICE to our PROVINCIAL CUSTOMERS.

We have stocks of 4-oz. Plain and Graduated Medicals, 2nd quality, tinted, in Hull, which we are offering at 15/6 per gross net, free Hull. Also 3-oz, at 12/- per gross, net, free Hull.

WHOLESALE ONLY.

NO RETAIL FIRMS SUPPLIED.

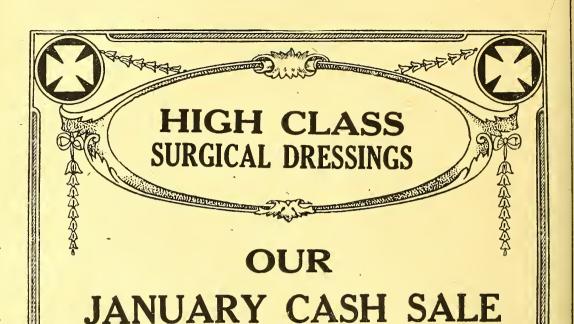
JULES LANG & SON

Charlton Works, Charlton Place, Islington, LONDON, N. 1.

Telephones: North 2770-2 (three lines)
Telegrams: "Assorted, Phone, London,"

Codes: ABC, 5th Edition: Scott's, 10th Edition (1906); and Bentley's Complete Phrase Code.





During this month we will allow a special discount of

10°/0

for Cash with Order only off our December Price List, a copy of which may be had on application.

London Office and Warehouse:

49 & 51 CENTRAL STREET, LONDON, E.C. 1

Telephone: City 8744. Telegrams: "UNDISPUTED, FINSQUARE, LONDON."

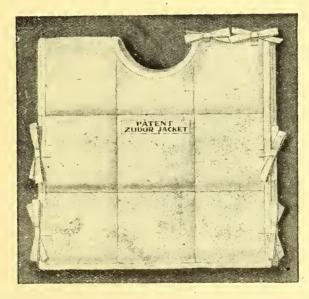
ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT

CABLES UNDISPUTED, STOCKPORT, CODE AB.C 5TH EDITION



Bronchitis and Phest Colds, recommend rotector

"ZUDOR" **JACKETS**



In Six Sizes and Two Qualities. (Any special size made to Order.)

	No.	Across Chest	Shoulder to waist.	Cotton Wool Per doz.	Retail each.	Lambs Wool Per doz.	Retail
	1.	8 in.	6 in.	10/-	1/3	16/-	2/-
Showcards	2.	10 in.	8 in.	15/-	2/-	24/-	3/-
and	3.	12 in.	10 in.	19/-	2/6	30/-	3/9
A James in a Martin	4.	15 in.	12 in.	26/6	3/4	36/-	4/6
Advertising Matter	5.	19 in.	13 in.	32/6	4/2	42/-	5/3
supplied with each Order.	6.	21 in.	15 in.	40/-	5/-	54/-	6/9

CUXSON, GERRARD & Co., Ltd.

OLDBURY, near BIRMINGHAM.

Synthetic & Aromatic Chemicals
Essential Oils, Flower Oils, &c.

LEMON, BERGAMOT, ORANGE, MANDARIN

PURE FOOD COLOURS In accordance with Pure Food Laws of U.S.A.

SELF-FIXING BOTTLE CAPS

Made by CHEMICAL WORKS "THALES," AMSTERDAM.

For Samples and Prices apply to:

HOLBORN K. B. MAVLANKAR "EKDUM LONDON."

Minerva House, 26-27 HATTON GARDEN, LONDON, E.C. 1

Sole European Agent to Polak & Schwarz, Ltd., Zaandam: HEATH MANUFACTURING CO., ST. LOUIS, U.S.A.; CHEMICAL WORKS "THALES," AMSTERDAM.

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Buy from the Actual Distillers.

UCALYPTIIS

B.P. and U.S.P.

60/65%. 70%. 75/80%.

AMYGDALINA EUCALYPTUS EUCALYPTU CITRIODORA EUCALYPTOL (CINEOL)

We will quote you C.I.F. afloat or ex London Stocks.

(Amalgamated with Burnside & Co.)

OFFICES SYDNEY. HEAD

LONDON OFFICES: 7 Drapers Gardens, Throgmorton Avenue, London, E.C. 2

Telephone No.: London Wall 8237.

TERPENELESS BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay Bergamot Caraway Cassia Cinnamon

Clove

CINNAMIC **ALDEHYDE** GERANIOL

Ħ

Dill Geranium Ginger

Juniperberry Lavender Lemon

CITRAL

Limes Mandarin Nutmeg **EUCALYPTOL** Orange Peppermint etitgrain Rosemary -SICILIAN -

LEMON - BERGAMOT ORANGE - MANDARINE.

SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best resu ts. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. The e is a quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY

<u>සුසුසුසුසුසුසුසුසුසුසුසුසුසුසුසුසුසු</u>

Lavington Street, Southwark, LONDON, S.E. 1.

ABC Code, 5th Edition. Western Union.

Telegrams: "LANDSLOH LONDON,"
Telephone: Hop 898.

AUSTRALIAN AGENTS.-OURY, MILLAR & CO., LTD., 350 Kent Street, SYDNEY. INDIAN AGENT .- Mr. W. CARR. c/o GRINDLAY & CO., BOMBAY.

ESTABLISHED 1817.

Sanderson's Essential Oils

Lemon, Orange, Bergamot, Mandarine, Neroli.

Guaranteed Pure and Finest Quality.

W. SANDERSON & (OATES & BOSURGI, Succrs.)

MESSINA

(Principal Works: Tremestieri, Messina.)

Shipkoff's Pure Otto of Rose

Nature ordained that Otto of Rose should have certain chemical and physical contents. Fakers design rose oils baving the same contents, but they are not Otto of Rose.

Shipkoff's Otto of Rose is Nature's Otto.

Before placing your contract be sure to get Shipkoff's sample and price, and tryit. Original Sample Coppers in 1, 2 & 4-oz. sizes.

ONCE TRIED-ALWAYS USED.

Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria. BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kızanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

CAPPING SKINS

WHITE AND COLOURED SPLITS. AND TRANSPARENT **OPAQUE** BAUDRUCHE. SPRINKLERS.

ARTHUR TOOMBS & CO.

Perfumers' Sundriesmen,

26-27 Bush Lane, Cannon St., LONDON, E.C.4.

Telephone: Central 13374.
Telegraphic Address: "Deflection, Cannon, London."

N.V. CHEMISCHE FABRIEK "NAARDEN"

BUSSUM. HOLLAND.

ESSENTIAL OILS, &c.

for the Soap, Confectionery, Mineral Water, Tobacco and Allied Trades.

SPECIALISTS

in the manufacture of SYNTHETIC Products for the Perfumery Trade.

Pharmaceutical Oils. Chemicals. Flor. Oils.

LARGE STOCKS IN LONDON.

Apply for Price List to-

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C. 2

Telephone: CITY 4719

AMERICAN

"MOHAWK" BRAND

OIL PEPPERMINT (Natural)

OIL CEDARWOOD OIL CEDARLEAF

OIL HEMLOCK OIL BIRCH

Heliotropine Crystals C.P. Vanillin C.P. Coumarin C.P. Oil Wormseed, American. Oil Wintergreen Leaf U.S.P.

MAGNUS, MABEE & REYNARD, Inc.

Essential Oils, Chemicals and Drugs,

NEW YORK U.S.A.

Cables-"MAGLAUR."

"ARETHUSA"

ESSENTIAL

LEMON, ORANGE (Sweet & Bitter) BERGAMOT **MANDARIN**

Guaranteed absolutely pure

The Brand that covers only Finest Quality Oils.

> Manufactured by the old-established house of FRATELLI JUNG (Est. 1867) Palermo, Messina, Catania.

ASK YOUR USUAL SUPPLIERS

to deliver you "Arethusa" Essential Oils, or apply to the London Agents:

Gerald McDonald & Co.,

Telegrams: "Spicebush, Bilgate, London." Telephone: Avenue 206 (3 lines, 7 extensions).

Synthetics, etc.

Acid Butyric Acid Cinnamic Anethol Amyl Butyrate

" Formate

" Salicylate

" Acetate, Confectionery

,, Valerianate Anis Aldehyde (Aubepine) Benzyl Acetate

" Alcohol, Best

,, Techn.

Benzaldehyde

Benzyl Benzoate Cinnamic Aldehyde Citral, No. 1

Citral, No. 1 ,, No. 2 Citronellol

Coumarin 100% Ether, Acetic

, Enanthic

" Benzoic

" Butyric

" Valeric

" Formic Eucalyptol Geraniol Acetate

ines

ERS

Courtin & Warner

CHEMICALS, DRUGS, ESSENTIAL OILS, SYNTHETICS, Etc. Etc.

FOR

Wholesale Chemists, Druggists, Soap Makers, Confectioners and Allied Trades.

List of Chemicals, Drugs, etc., will appear in next issue.

8 Harp Lane, London,

Telegrams—
"Accourtiwa, Bilgate, London."
Telephone—
Avenue 2220 and Central 9521.

LIEBER'S; A B C,4,5 & 6 ED.; BENTLEY'S

Synthetics, etc.

Lilac (Exquisite)
Geraniol (for Perfumery)

No. 2 (for Soap)

Heliotropine
Iso Būthyl Alcohol
Jascinthe
Jasmin, Pomade
Linalyl Acetate
Linalool
Mayaline
Methylacetophenone
Methylanthranilate
Methylbenzoate
Methylsalicylate

Methylsalicylate
Muguet "Surfleur"
Musk, Tonquin
,, Xylol

" Xylol Neroli, Surfleur Artificial

,, Artificial Phenol Ethyl Alcohol Rhodinol Rose (Exquisite)

Sassafras Safrol

Terpineol, French

Terpenyl Acetate
Terpinol
Vanilline 100%

(2

CHLOROPHYLL S

(aqueous solution)

Suitable for Perfumery, Confectionery, Liqueurs, etc.

THE SANDOZ CHEMICAL CO. LTD., Bradford.

(2)

ROURE BERTRAND FILS, GRASSE. Established 1820.

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3. Wholesale Houses only supplied.

NOTICE!

In order to cope adequately with the large numbers of accounts opened for ROSINE and DE LUZY lines, the firm of W. H. CALNAN & CO. has been formed:

Managing Director, W. H. Calnan; Directors, G. E. Stanbridge and Joseph Wyatt. The character of the firm is in no manner altered—simply the capital has been increased to develop accommodation and advertising.



WE INVITE ENQUIRIES, ESPECIALLY FOR

Poudre de Luzy

RETAILING AT

10½d. 19 36

The most beautiful and inexpensive line extant.



W. H. CALNAN & CO., Ltd., 30-32 Ludgate Hill, E.C. 4.

SALES ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH. LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A. Retail Price 6d.

WANDA TOILET PUMMICE. WANDA NAIL POLISH. WANDA ONE-DROP PERFUME.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD., 33 Percy St., London, W.1.

AND ALL WHOLESALERS.

RUVOIRE ET CIE

MANCHESTER & ANTIBES.

High-class Concentrated Perfumes made with some of the finest flower oils from the South of France, in high-class rod-stoppered hexagon bottles with gold seals.

ODOURS-

PARMA VIOLET. SWEET PEA. WHITE ROSE, WHITE LILAC. WALLFLOWER. LILY OF THE VALLEY.

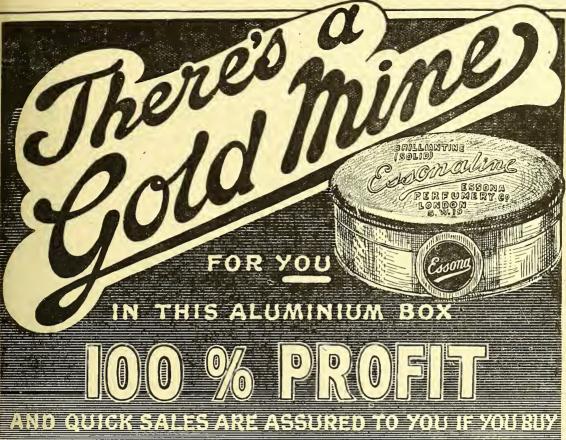
FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good Selling Line.

APPLY- A. M. EVANS,

154 CHURCH LANE, HARPURHEY MANCHESTER.



BEST WINDOW DISPLAY

ESSONALINE is the finest and smartest got-up Solid Brilliantine. It is packed in handsome Aluminium Containers, the illustration being reduced in size.

Retail 1/3. Wholesale 9/6 a dozen.

Special regular prices for a fortnight's show in your window each time you buy, as follows:

3 doz. at 8/4, 6 doz. 8/-, or 12 doz. or more at 7/9.

Carriage Paid, 3\frac{3}{4}\% discount for Cash with Order. Distinctive Showcards Gratis.

IF YOU ORDER ONLY 3 DOZEN. THE PROFIT IS 87%, WHILE ON GROSS LOTS IT EXCEEDS 100 per cent.

DISPLAY ORDER

.....CUT HERE

To ESSONA PERFUMERY COMPANY (Hicks, Mills, Elsworthy & Co., Ltd., Proprietors) Essona Works, LONDON, S.W. 19.

> Please send, carriage paid,doz. Essonaline at...... doz. I/we will give a fortnight's Window Show. (If cash enclosed, state amount: £ : :).

> >

NAME

ADDRESS.....

WE **GUARANTEE**

to take back any Essona branded Speciality that fails to give complete satisfaction without loss to User or Retailer.

WILL

WHOLESALERS

PLEASE INQUIRE

FOR TERMS

EY.

HEY

THE LINES THAT SELL ARE THE LINES THAT TELL

THE LINES THAT SELL ARE THE LINES THAT TE "VICTRA" TOILET SPECIALITIES WILL BRING YOU REPEATS ON SHEER MERIT. "Brillanting January J







Wm. EDWARDS & SONS, 157 Queen Victoria St., LONDON, E.C.4.

Something New.

'RECAMIER' Toilet Productions.

Creme Recamier, 1/6, 3 - and 5/6 Savon Recamier, 1/3 and 3/6 Creme de la Harem, 1/3, 2/6 and 4/6 Special Face Powder, 1/6 and 2/6

CARRIES VERY SUBSTANTIAL PROFITS

Enquirles Invited,

RECAMIER TOILET PRODUCTS CO.
4 St. James's Street, London, S.W. 1.

DAINTY PERFUMED CALENDARS

With Your Own Advertising Matter.

£1 for 250.

5/- each additional 100.

Write for Specimen to-

THE LIBERTY PRESS

(Branch of Hicks, Mills, Elsworthy & Co. Ltd.) 297 Haydon's Road, LONDON, S.W. 19.

Increase of Prices. Taylor's CIMOLITE Preparations

As used by Royalty and the Nobility.

After maintaining the old prices for over 50 years, owing to increased cost in aw materials, labour, &c., the Proprietor has been reluctantly compelled to raise the prices of several of the Cimoite preparations, as from Jan. 1, 1921. The increases are as follows—

CIMOLITE TOILET PO DER.

O'ADLEL TO ADLEN.
Old Prices, 1/-, 2.9. 3/-. New
RETAIL PRIOFS, 1/13/3/, 3/3.
The 5/6, 6/- and 11/- sizes
to remain at the old price.
AS USED IN ALL
ROYAL NURSERIES.

CIMOLITE TOILET CREAM.

Old Price, 1/- 'NEW RETAIL PRICE, 1/3 Packed in Collapsible Tube and Sliding Box, Neat and Attractive line. For most tender skins.

CIMOLITE FACE POWDER

FACE POWDER
(Pink, White or Jaunatre)
Old Prices, 1/-, 2/9, 9/-, New
RETAIL PRICES, 1/-, 3/-, 3/-, 3/The 11/1 size Face Powder
is now packed in dainty
boxes instead of packets.
VERY ATTRACTIVE
LINE, The 6d. packets of
Face Powder remain at
the old price.
CLIMOLITE

CIMOLITE SHAVING STICK.

Old Price, 1/-. NEW RETAIL PRICE, 1/3. SPECIALLY PREPARED FOR TENDER SKINS.

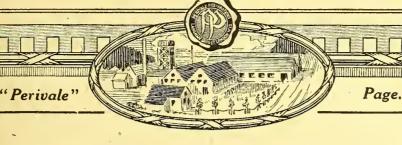
"Cimolite" goods are to be obtained from all leading Wholesale Houses or direct from the Manufacturers—

JOHN TAYLOR,

Manufacturing Chemist,

13 BAKER STREET, LONDON, W.1.

Write for Pamphlets and Counter Bills. LIBERAL TRADE TERMS. VERY



THE PROPRIETORS OF "PERIVALE" PREPARATIONS

take this opportunity of thanking their many new friends for the support which has been accorded them during 1920, and to offer

Best Wishes for Continued Prosperity in the Mew Year.

PROSPERITY means quick sales and good profits. Our customers get both, because we are out to help the Retailer by supplying only the finest quality preparations, put up in the most attractive manner, retailing at moderate prices and showing good handling profits.

If you are not already stocking, send TO-DAY for Price List and Samples

"PERIVALE" PREPARATIONS

THE

Successful Toilet Series of Exceptional Merit.

- "Crême de Menthe" Tooth Pasie.
- "Perivale" Vanishing Cream (non-greasy).
- "Perivale" Hair Cream.
- "Perivale" Brilliantine.
- "Perivale" Mouthwash.
- "Peri ale" Liquid Shampoo.
- "Perivale" Soli i Brilliantine.
- "Perivale" Old English Mitcham Lavender Water.

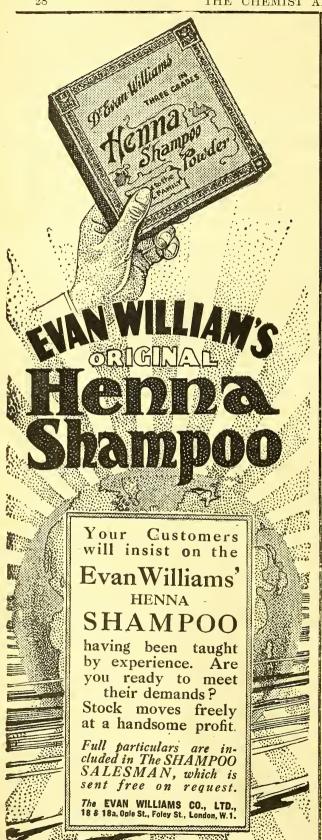
HAVE YOU ENTERED for our NEW WINDOW-DRESSING COMPETITION?

Look for an INTERESTING ANNOUNCEMENT on this page, on the 22nd inst.

LANGHAM BROTHERS, LIMITED,

MANUFACTURERS OF PERIVALE,

FINE CHEMICALS, WEST EALING, W.13.



"Jackel's Cream"



CREAM

Trade Mark attached to each ottle.

(without Grease)
for THE HAIR

Sold everywhere Established 1883.

392923929239292392392

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Heuses on application.

Jackel et Cie (of Paris)

Ltd..

Sauchiehall Street

GLASGOW.



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone."

A big vigorous, impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.



THE HAIR GROWER
Price 2/9

Wholesale:

26/PER DOZEN.

Wholesale:

TATCHO-TONE

R GREY HAIR

PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO. 5 Great Queen St., Kingsway, LONDON, W.C.2.

C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN

FIVE NATURAL SHADES,

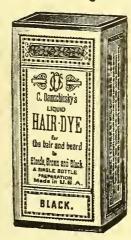
BLONDE, LIGHT BROWN,

BROWN, DARK BROWN,

AND BLACK.

2/- Size 15/- per doz. net.

3/= , 22/- , ...,



This excellent Dye has an enormous Sale all over the World.

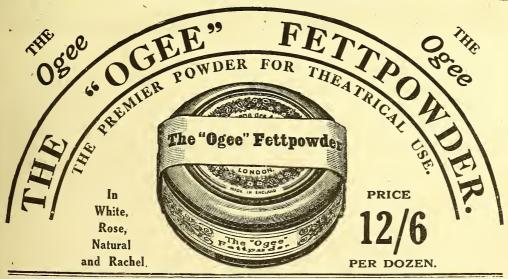
SIMPLE TO USE.

WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.
IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents:

OSBORNE, GARRETT & CO., LIMITED,

LONDON, BIRMINGHAM AND GLASGOW.

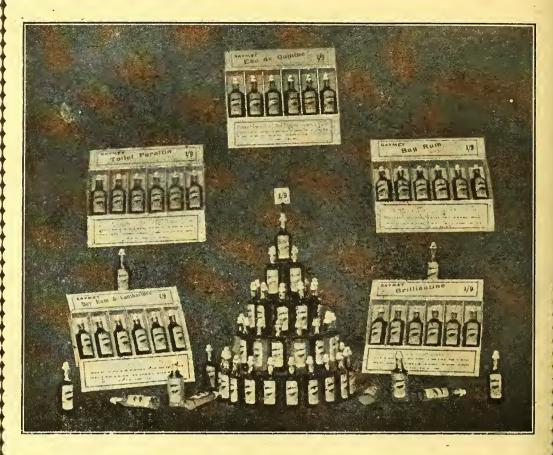


PROPRIETORS OF

THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,

AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED, BIRMINGHAM. LONDON, W. GLASGOW.



If you take a pleasure in showing well-packed goods, and can visualise the above window display of Raymet Toilet Preparations—with the bright colours of the liquids, the handsome bottles, skin-capped and finished with blue silk, and the restrained brilliancy of the labels, in shades of blue, black and gold—you will want it in your own window.

It makes one of the most attractive displays you could wish to see.

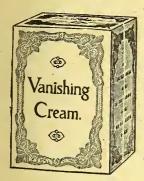
The silent salesmen outers sell the goods in the first place—the quality brings the repeats.

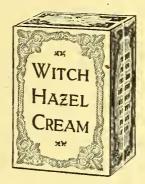
Let us send you an assorted gross, packed in these half-dozen show outers, together with the centre stand which is given free: you will be well satisfied with both the Sales and the Profits.

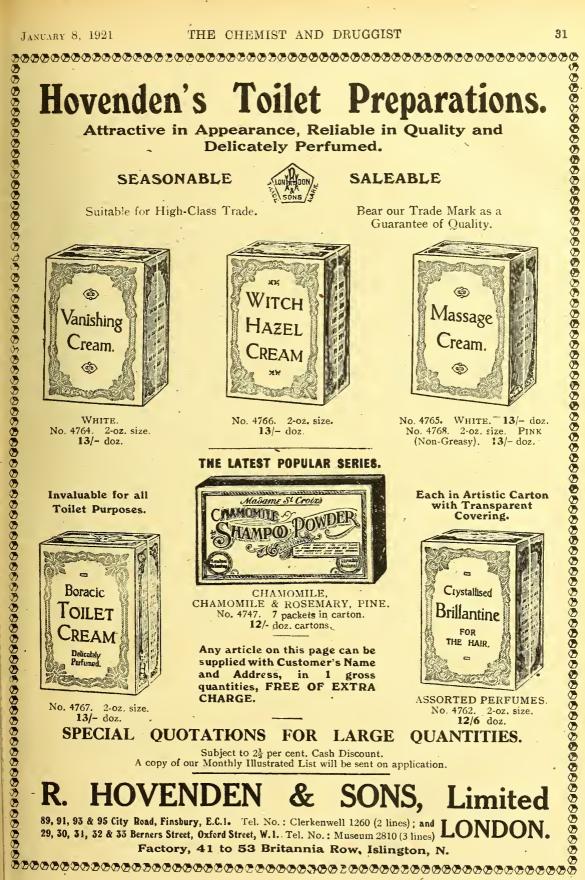
Toilet Paraffin—Eau de Quinine—Bay Rum and Cantharides—Brilliantine—Honey and Flowers—Hair Cream and Bay Rum, in bottles holding about $4\frac{1}{2}$ oz. at 12/6 doz.—retailing at 1/9 each—also Brilliantine only in 2-oz. bottles at 8/- dozen, less 5% for cash in 7 days, monthly account net, carriage paid, case free.

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37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

			Price per dos.	Selling Price
PILENTA SOA	P	•	to Retailer.	1/=
A complexion soap.				
PROLACTUM For the lips.	-	-	10/-	1/-
PARSIDIUM J	EL	LY	10/-	1/-
For wrinkles.	3D /	MCE	00/0	0/0
ALLACITE of (INGE DSSOM	22/6	2/6
BORANIUM	_	-	22/6	2/6
A hair tonic.			, _	_, _
CLEMINITE For a face lotion.	•	-	22/6	2/6
COLLIANDUM	-	-	22/6	2/6
For a face tint.	- 1			
PERGOL =	-	•	22/6	2/6
STALLAX -	-	•	22/6	9 2/6
For a shampoo.		•	·	-, -
JETTALINE For elearing the skin.	•		31/6	3/6
PHEMINOL	_	_	36/-	4/-
A depilatory.	•	-	90/-	/-
MENNALINE	-	•	36/-	4/-
For the eyelashes.		A 32	24/0	010
MERCOLIZED	, w	AX	31/6	3/6
STYMOL -	-	-	36/-	4/-
For oily complexions a	nd bla	ckbeads	/	
BARSYDE	-	-	22/6	2/6
Dandruff eradicator. TAMMALITE		_	22/6	2/6
For grey or faded hair		_	22/0	2/0
LIQUID PERG			31/6	3/6
To check excessive pro	espira	tion locall		0/0
BICROLIUM For whitening the han	đe	-	22/6	2/6
HARAPOSA			22/6	2/6
Nut oil shampoo.	_		,	-, -

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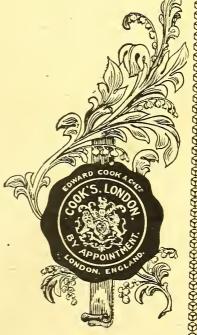
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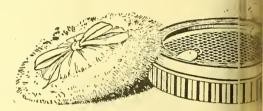


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In the Sifter Box.

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Shows	you	3.	$3\frac{1}{3}\%$	on	sell	ing	pr	ice.
Handbag s	ize	-			-	~	~	1/-
Medium si	ze	-		-		-	-	2/-
Large size		-		-	-	-	-	3/6
Leather or	fancy	silk	vanity	cases,	with	mirro	r,	
small s	ize	-		-	-	-	-	5/-
Medium siz	ze	-		-	~	-	-	7/6
Large size	-	-		-	-	-		10/-
Blanche, E	Rachel.	Nat	urelle.	Rosée.	Basi	anėe.	Ind	ienne.





CRÈME DE BEAUTÉ NILD

is a perfect face cream packed in attractive cartons, an a product of the Parfumerie Nildé. Extensive advertisir, ir National Press and Magazines commenced in Decembe for mutual benefit. Do not disappoint your customers when her for it, but order your stock at once.

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Shows you 33½% on selling price.

MINIMUM SELLING-PRICE - - 2/-:

In two Shades: Blanche and Naturelle.

ROUGE INVISIBLE NILDÉ

in the sifter box.

Rouge Invisible Nildé is in powder form, and can be obtained in two shades—Brune and Blonde—in the sifter box, which positively prevents using too much

Small size	-	-	-	-	-	-	1/6
In leather	case	-	٠,	-	-	-	5/6

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The Creamy Lather Soap

THE package, as here illustrated, sells the soap the first time—the quality of the soap sells it ever afterwards.

Package of 3 tablets of

Savon Nildé (closed) Savon Nildé is a worthy product of the Parfumerie To sell it is to add to your reputation. containing 1 tablet of Savon Nildé Package of 3 tablets of Savon Nildé Open for display British and Colonial Agents: 8 BLENHEIM ST., LONDON, W. 1.

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BOURJOIS

POUDRE de RIZ de JAVA

No. 45. 2/- Size. 1 doz. 16/- doz. 15/9

No. 495. 1/3 Size. 1 doz. 11/-10/9

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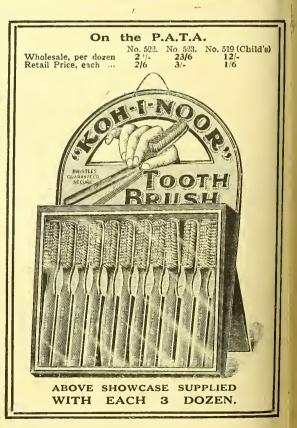
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New Poster in Six Colours with all orders.

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Good profits on all sales.

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4 oz. size 12/6 doz. 2 oz. size 8/- doz.



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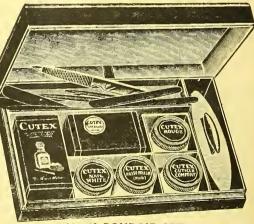
THESE PREPARATIONS CAN BE OBTAINED FROM ALL WHOLESALE HOUSES



No. 16 COMPACT SET



No. 17 TRAVELLING SET



No. 18 BOUDOIR SET

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INCREASED MARGIN TO RETAILERS.

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We trust this will meet with the approval of our customers and

SECURE THEIR CORDIAL CO-OPERATION IN THE SALE OF THESE POPULAR PASTILLES.

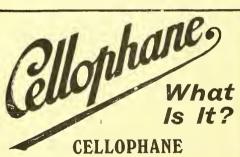
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Also in the shape of **Discs** for Creams, Ointments, Boot Polish, &c.

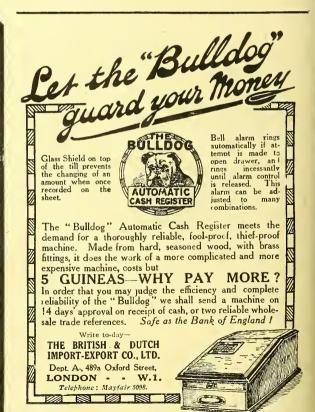
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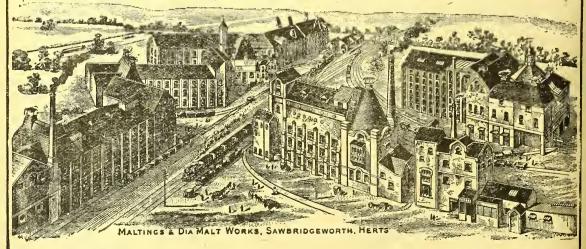
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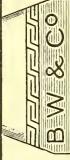
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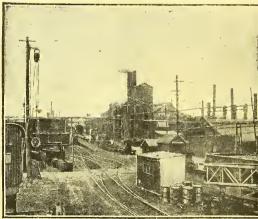
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CONTENTS.

Vol. 94. Series 2137.

Index Notice.

THE index for Volume XCIII., covering the second half of 1920, is in preparation. We shall be glad if those of our subscribers who desire copies will send us postcard requests, as the index will not be issued with the journal.

Wills.

Mr. John Woodworth Cowlishaw, 121 London Road, Derby, artificial-limb constructor, who died November 1, left estate of the gross value of 1,689l. 15s. 10d., with net personalty 1,638l. 4s. 8d.

THE RIGHT HON. EDWARD PRIAULX, First Baron Glenconner, Wilsford Manor, Salisbury, Glen Innerleithen, Peebles, and 34 Queen Anne's Gate, London, S.W., of Charles Tennant, Sons & Co., Ltd., the Tharsis Sulphur and Covern Co. and Copper Co., Ltd., etc., who died on November 21, left unsettled property of the gross value of 819,4791. 13s. 3d., with net personalty 640,8991. 19s. 3d. His shares and stock in Charles Tennant, Sons'& Co., Ltd., are left to General Arthur Alexander Wolfe Murray,

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Dyestuffs (Import Regulation) Act, 1920.

The Board of Trade draw attention to the fact that the Dyestuffs (Import Regulation) Act, 1920, will come into force on January 15, 1921, and that import licences will be required in respect of any good covered by the Act which may arrive in the United Kingdom on or after that date. Applications for such licences should be addressed to the Secretary, the Dyestuffs Advisory Licensing Committee, Danlee Buildings, 53 Spring Gardens, Manchester, and should give the following information, viz.:

(1) Name and address of applicant.
(2) Description of goods (including the brand mark in the case of dyes) in respect of which his licence is required.
(3) Quantity and approximate value of each product required.

(4) Name and address of manufacturer abroad.

(5) Name and address of consignor abroad and ports of shipment and arrival.

(6) Particulars of packages and marks, where known.
(7) Reasons for importation, including an indication of the purpose for which the goods are to be used.
(8) Estimated period for which the quantities in question

will suffice.

At a little later date special forms of application will be available, but in the meantime applications by letter giving the above information will be considered. The Dyestuffs (Import Regulation) Act, which prohibits the importation into the United Kingdom, except under licence, of all synthetic organic dyestuffs, colours and colouring matters and all organic intermediate products used in the manufacture of such dyestuffs, colours, or colouring matters, provides for the charge of a fee not to exceed 5t. in respect of each licence issued. No remittances, however, in respect of this licence fee should be sent with the application; the amount will be notified in each case to the firm concerned.

Railway Rates Classification.

Proposals for the revision of the general railway classification of merchandise for conveyance by goods trains have been drafted by the railway companies for submission to the Railway Rates Advisory Committee. This revision was one of the terms of reference to the Railway Rates Advisory Committee, but the Committee felt that it would be a distinct advantage to have definite proposals before them, and requested the railway companies to suggest a revised classification based on their general experience. This has now been prepared and will come before the Railway Rates Advisory Committee on January, 18. It is likely to lead to much controversy, but traders interested will have ample opportunity of stating their views. The companies' scheme will at any rate make a useful basis for discussion. Instead of the existing eight classes, A, B, C, and 1 to 5, and a special class, they propose that there should be twenty-one classes. All the old classes are split up, except Classes 4 and 5, into two, three, or four classes, and various alterations are suggested in the conditions on which long, bulky, or heavy articles shall be carried.

Chemical-Trade Wages Increased.

The Industrial Court, which has been hearing a claim for an increase in the wages of employees in the chemicaltrade (C. & D., II., 1920, p. 1655), has issued its award. Men employed on timework not in receipt of the $12\frac{1}{2}$ per cent. bonus on earnings are to receive an advance of 4s. a week, payable at the rate of 8d. a day or shift for each day or shift worked. Men employed on timework, and in receipt of the bonus, are to receive 3s. 6d. a week, payable at the rate of 7d. a day or shift for each day or shift worked. Pieceworkers are to receive advances equivalent to those granted to timeworkers. The advances are to form part of the total earnings on which the bonuses of $12\frac{1}{2}$ per cent. and $7\frac{1}{2}$ per cent. are to be calculated. The Court recognised that, as regards the state

of the industry, the future is uncertain, and that in some respects the outlook is disquieting. Having regard, however, to the information furnished, they did not feel that the present position was such as to justify them in refusing the claim to an advance which they consider was warranted on other grounds. It is estimated that the advances over the pre-war rates amount generally to 39s. 6d. a week, plus 12½ per cent. on total earnings in the case of plain timeworkers twenty-one years of age and over. Pieceworkers have received an advance of 15 per cent. on net piece prices plus 33s. 6d. a week and 7 per cent. on total earnings.

London Chemists' Retail Price List.

The following are among the alterations in the current issue of the London Chemists' Retail Price List: Drugs.—Ac. benzoic. synth., 8d. ez.; ac. citric., 7d. oz.; ac. oxal. coml., 4d. oz.; alum. coml., 8l. lb.; bals. peruv., ad. oxa; comm., 4a. oz.; annh. comm., ox. no.; oas. pet.v., 3d. dr.; bism. carb., 2s. 2d. oz.; camph. flor., 1s. 2d. oz.; camph. tab., 4. oz. 4d.; cera alb., 7d. oz.; composition powder, 6d. oz.; eserin. sulph., 1s. 7d. gr.; ext. filicis liq., 7d. dr.; ferri et amm. cit., 9d. oz.; guaiac. res. pulv., 1s. 7d. oz.; henna, 6d. oz.; ichthyoc. braz., 1s. 11d. oz.; 1s. 7d. oz.; henna, 6d. oz.; ichthyoc. braz., 1s. 11d. oz.; insect powder, 8d. oz.; liq. antim. chler. coml., 2s. 6d. 4b.; ol. anisi, 9d. oz.; ol. cajuputi, 10d. oz.; salt of lemon, 7d. oz.; sodii salicyl., 8d. oz.; sp. vini meth., 2s. pt.; syr. ficus, 5d. oz.; syr. scillæ, 3d. oz.; syr. violæ, 4d. oz.; thymol, 1s. 6d. drm.; tinct. benz. co., 10d. oz.; tinct. card. co., 6d. oz.; ung. bellad., 4d. oz. Various penny card. co., 6d. oz.; ung. bellad., 4d. cz. Various penny quantities have been changed to 2d., and the alterations incidental to the new Poisons Schedule have been made.

Tincture of Iodine Case.

At Old Street Police Court, London, E.C. 2, on December 30, 1920, A. P. Barnard & Son, chemists, 309 Hackney Road, E. 2, were summoned, under the sale of Food and Drugs Acts, for selling, at 52 Bishop's Road, strong tincture of iodine containing less than the amount of iodine required. The case for the prosecution having been stated, Mr. C. H. Kirby (Neve, Beck & Kirby), who appeared for the defence (instructed by the Chemists' Defence Association, Ltd.), intimated that the facts would not be contested, and, in the circumstances, his clients would plead "Guilty." There were two tinctures of iodine in the British Pharmacopæia, and an assistant had supplied the weak tincture in ignorance. The price charged was for the weak tinc-ture. The assistant was brought up under the old Pharmacopœia, and only one tincture was known in the business up to 1914. The magistrate remarked that it was not a case for a fine, and ordered the defendants to pay 2l. 2s. costs.

Contracts.

The following tenders have been accepted by the bedies named:

Dover Town Council.—Forster & Co., disinfectants.

North Bierley Guardians.—Harrison, Parkinson & Co., chemists, Bradford, drugs.

Birmingham.

A rainy week has caused a big demand for winter remedies.

A firm of Birmingham opticians is presenting spectacles to needy "Mail" applicants.

An article on "cosmetics" appeared in a recent issue

of the "Birmingham Daily Mail

A suburban doctor recently dismissed his qualified lady dispenser. "Thrift, thrift, Horatio!"

Papers have been so reduced in size during the past few days that it was quite a treat to open the last number of the C. & D.

The demand for Paget photographic goods, after a secent demonstration organised by the manufacturers, soon exhausted the local dealers' supplies.

The President of the Birmingham Pharmaceutical Association, Mr. J. W. Atkinson, has sent to the members and associates best wishes for the New Year.

An advertisement of a medicine created some merriment and came in for some criticism at a lecture on "Brummagem Grammar." at the Midland Institute, during the Christmas holiday.

Nestlés, Ltd., have taken large premises at the Easy Row end of Edmund Street, formerly occupied by the Ministry of Munitions. An ornate front and other improvements are being installed.

Among the names of contributors to the Lord Mayor's unemployment fund are those of Mr. and Mrs. Barrow Cadbury (5001.), Mr. George Cadbury (5001.), Alderman Clayton, Ph.C. (501.), and Mr. W. A. Albright (501.).

Dr. J. F. Hall-Edwards, a member of the City Council, has been awarded a diploma in medical radiology and electrology by Cambridge University. He is the first medical man in the city to be awarded this distinction.

Dog fauciers among pharmacists will be glad to know that the annual dog show, dropped since 1915, is to be revived at Bingley Hall on February 16. Dog licences, it is not amiss to recall, fall due during the present month.

Liverpool.

Mr. Robert C. Herman is recovering from a sharp attack of illness.

New Year's Day saw many shops closed, but comparatively few pharmacies were among the number.

An effective showcase, with a sewing-machine stand as its base, has been installed by a North-End pharmacist.

Dr. G. V. C. Last, a quondam Liverpool pharmacist, is acting as locum tenens for Dr. Roberts, Merton Road.

The demand for syphons of soda water during the holiday has taxed the resources of many suburban pharmacists.

For selling-purposes, "sprays" proves a better word an "atomisers." A window-ticket written "anatothan "atomisers." A window-ticket misers" has given rise to mystification.

John Thompson, Ltd., intimate in a circular that, owing to the difficulties of removal to Duke Street, trade may not be resumed there before January 17.

It has been observed that during the recent holiday the calls for temporary supplies as between one retailer and another during the wholesalers' closure and stock-taking fell to a minimum.

Leicester.

Business just prior to Christmas showed a considerable improvement, and to some extent made up for the slump in the early part of December.

The effect of the sales and competition by the multiple drug-stores is being felt, but the prospect of falling prices during 1921 is acting as a leash to chemists who would rush into the arena and cut prices (and profits) regardless of consequences. It is considered that existing avenues of business may be further explored and new ones opened.

Newcastle-on-Tyne.

The Newcastle-on-Tyne section of the Society of Chemical Industry (chairman, Dr. J. H. Paterson) has arranged, in conjunction with the authorities of Armstrong College, a course of six lectures in applied chemistry, commencing on January 12.

Mr. E. Hatschek is to lecture on "Colloids." Mr. Hatschek is the author of a standard work on this subject, and is technical adviser to a London company of chemical engineers. Mr. L. Archbutt, F.I.C., chief chemist to the Midland Railway, will lecture on "Lubrication and Lubricants." The lecture sccretary is Mr. A. Trobridge (Trobridge & Co., Ltd., manufacturing chemists, Newcastle and Felling-on-Tyne).

Sheffield.

To enable students at the Central School to obtain more practical experience, Mr. E. Preston. Ph.C., has arranged for the manufacture of the chief pharmaceutical prepara-tions and the testing of the finished article.

Depression through failing to obtain medicine owing to shops being closed was the novel excuse recently offered for drinking some disinfectant fluid. The ex-soldier who had taken it was saved from the worst consequences of his act.

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The Sheffield chamber of commerce recommends the associated chambers to adopt a resolution urging the Government to cut down all ministries, departments, and expenditure which are not absolutely essential. The resolution further states that the enormous burden of national and local expenditure, which has already resulted in heavy trade depression and widespread unemployment, is leading to national disaster.

Miscellaneous.

Lectures on Essential Oils.—Mr. C. T. Bennett, B.Sc., Ph.C., commences a course of lectures on the chemistry and technology of essential oils at the Borough Polytechnic Institute, Borough Road, London, S.E. 1, on January 11. The syllabus and other particulars can be had on application to the Principal of the Institute.

EXPORT RESTRICTIONS REMOVED.—The Board of Trade (Licensing Section) announce that as from December 30, 1920, the following will be removed from lists A and B of prohibited exports: Potash, muriate, sulphate, and crude manurial potash salts and mixtures containing any of these substances; potassium permanganate, sugar, cane and beet.

THEFT FROM A SHOP.—The premises of Boots, Ltd., Boar Lane, Leeds, were visited by thieves on January 1. The intruders decamped with a quantity of fancy goods and some cash. A number of shops in the centre of the city have been entered lately, and a warning to see that fanlights and trap-doors are properly secured has been issued.

DECONTROL OF EGGS.—It is announced that the Eggs (Restriction) Order, 1918, by which the use of eggs otherwise than for human food was forbidden (C. & D., 1918, p. 142), is revoked. The Eggs (Prices) Order, 1918 (C. & D., 1918, p. 946), is also revoked, part of its provisions, however, being retained in a modified form under a new Order, the Eggs (Description on Sale) Order.

Benzole Price Reduced by 3d. per gallon. This coincides with the reduction in the price of petrol consequent upon the abolition of the Customs duty on imported motor spirit. "National" benzole, which is a home-produced motor spirit, has been exempted from taxation in order to encourage its production, and to allow it to be sold competitively with imported motor spirit.

SALE OF FOOD AND DRUGS ACTS.—The Essex County analyst (Dr. Bernard Dyer) states, in his annual report, that twenty samples of borax were found to contain from 20 to 140 parts of arsenic per million; only one of these was purchased as "commercial" borax, and it contained 100 parts per million. One sample of camphorated oil had been prepared with a mineral oil, and was deficient in camphor to the extent of more than 25 per cent.

Warrants of Appointment.—"The London Gazette" of January 4 contains the names, businesses, and addresses of companies, firms, and traders who hold warrants of appointment to the King, the Queen, the Prince of Wales, and Queen Alexandra. There are also lists of those entitled to style themselves "By appointment to the late King Edward" and "By appointment to the late Queen Victoria." The various lists extend to thirty pages.

STANDARDISATION OF DISINFECTANTS SUGGESTED.—
Letters from the Royal Sanitary Institute have been instrumental in the passing of resolutions by the York Health Committee and the Blackpool Health Committee to the effect that it is desirable that disinfectants should be standardised as to their germicidal value, the sale to be controlled by legislation, and false representation made a punishable offence.

Anglo-German Debts.—British nationals who have registered claims against Germans in respect of pre-war debts will shortly receive a notification from the Clearing Office that the last day for making the necessary statutory declaration in support of their claims is March 31. No claim in respect of pre-war debts will be admitted which is lodged after that date, unless the Controller of the Clearing Office is satisfied that the omission to lodge the declaration by the date mentioned arose from

circumstances for which the creditor could not justly be held responsible.

Medical Reciprocity with Belgium Revoked.—Early in 1915 Part II. of the Medical Act, 1886, was made applicable to Belgium (C. & D., I., 1915, pp. 182, 201), thus enabling Belgian medical practitioners to be placed in the Foreign List of the Medical Register of the United Kingdom. It is announced in "The London Gazette" of December 31, 1920, that this arrangement is now revoked, because "the kingdom of Belgium no longer affords to the medical practitioners of the United Kingdom such privileges of practising in Belgium as were offered during the late War." The revocation is, nevertheless, "without prejudice to the right of any persons whose names have been already entered on the register."

In the Courts.—At Greenwich Police Court, recently, Ellen Dixon (33), window-cleaner, was remanded on a charge of attempting to commit suicide by taking oxalic acid.—At Hull Police Court, on December 31, a fourteen-year-old girl was remanded on a charge of attempting to commit suicide by taking salt of lemon.—At Tower Bridge Police Court, London, on January 1, Percy J. Hodge, process hand, Hathway Road, West Croydon, and Albert E. Thomason, Englefield Road, N. 1, were charged with stealing and receiving respectively platinum and palladium sponge, valued at 2,000%, the property of the Mond Nickel Co., Ltd., Great Suffolk Street, S.E. 1. It was stated that Hodge had been in the company's employ since July 1919. A remand was ordered.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Brentford, Alfred Shepherd, horsekeeper, died from an overdose of opium, inadvertently taken for insomnia.

At St, John's Square, London, E.C. 1, Alfred S. Rickett (70) died from accidentally drinking a liquid described as "diluted carbolic acid." It was stated at the inquest that the fluid was kept in a beer-bottle.

A verdict of "Death by misadventure" was returned at a Fulham inquest, held on January 4, on the body of Mr. J. R. Fab'ing, a company director, who, the evidence showed, was found in bed in a comatose condition, and failed to recover consciousness. A medical witness stated that death was due to asphyxia following a dose of morphine.

An inquest was opered in Central London, on December 30, 1920, on the body of John L. Hall, aviator, who was found dead in bed in a Bloomsbury hotel. The mother of the deceased, giving evidence, said that her son had been addicted to drug-taking for the past four years. Originally, morphine was given him by a doctor for neuralgia, and he had become confirmed in the habit. Owing to toothache her son had tried to procure cocaine, but without success. Dr. Fairlie, police surgeon, stated that there were a hypodermic syringe and seventeen hypodermic tablets on a table in Hall's room. In a tin box there were three full tubes of morphine-sulphate tablets. Dr. Spilsbary said there was evidence of a recent injection. The inquest was adjourned.

Yacca Gum.—The yacca gum industry on Kangaroo Island, Loth Australia, is the subject of a note in the United States "Commerce Reports." Ten thousand tons was gathered last year and shipped to Great Britain and the United States. Before the war nearly two-thirds of the Australian output was bought by German firms. Dealers have never been able to discover what use the Germans put it to, but it is believed that it was used in the manufacture of furniture polish and lacquer for metal ware. The product contains a high percentage of picric acid on nitration, and it is not unlikely that it was also used in the manufacture of explosives—a use to which it was put by the Allies in 1917 and 1918.

Irish News.

Brevities.

William Salter & Co., chemists, 42 Dublin Street, Carlow, are retiring from business.

Mr. J. J. McHenry, Ph.C., The National Pharmacy, 23 High Street, Emriskillen, has passed the Qualifying examination in midwifery, gynæcology, and ophthalmology of the Royal College of Surgeons, Dublin.

Mr. J. E. Connor, J.P., President of the Pharmaceutical Society of Ireland, has been elected on a representative committee of citizens of Newry, co. Down, to safeguard the peace of the town and its welfare generally.

Belfast.

At the annual meeting of the Ulster Banking Co., Ltd., Mr. Wm. McMullan (Thomas McMullan & Co., whole-sale druggists, Victoria Street, Belfast) was appointed to the Advisory Board for 1921.

At the Belfast Corporation monthly meeting on January 3, an application for renewal of licence under the Poisons and Pharmacy Act, 1908, from Mr. Wm. J. M'Clements, seedsman, 100 High Street, was granted.

Scottish News.

Brevities.

Mr. W. D. Paul, chemist and druggist, has commenced business in Nairn.

Mr. David Leitch, chemist and druggist, Greenlaw, has been appointed a magistrate for the county of Berwick-

Mr. John McKerlie, chemist and druggist, Thornhill, has been placed on the Commission of the Peace for Dumfries-shire.

A number of chemists adopted Sunday hours of business on January 3, in addition to closing all day on New Year's Day.

Mr. T. Scott, chemist and druggist, Motherwell, has been appointed a member of the management committee of the local Merchants' Association.

"The amended Poison Schedule (C. d. D., January 1, p. 75) has been pasted up for reference in many Scottish pharmacies," writes a correspondent.

Dundee.

In an article entitled "Surgery, Ancient and Modern," the "Courier" of January 4 describes a visit to the Wellcome Historical Medical Museum. It would appear as if the lay Press has been reading a recent C. d. D. article.

Edinburgh.

The keen competition between the local wholesale houses is considered responsible for the speedy delivery of goods.

Mrs. Inglis Clark provided a "high tea" for the ninety-eight inmates of Inveresk Poorhouse (Musselburgh) on New Year's Day.

An offer to present each customer with a tube of toothpaste, "so long as stock lasts," corresponding to the one purchased, is the subject of a window-display in

Mr. John Mulvenna, chemist and druggist, formerly of London Road, now in New Zealand, writes to a pharmaceutical friend that he is engaged in a course of study previous to starting fruit-farming.

"The late Mr. A. D. Guthrie," writes a correspondent, was one of the kindliest and most conscientious men. Retiring from business shortly before the war, owing to temporary ill-health, he acted frequently as locum tenens during the last five or six years. He had a happy knack of making himself fit in anywhere."

Fife.

A brief history of "the Spence family," covering the past fifty years, was published in the December 31 issue of the "West Lothian Courier."

For forging on a counter-weighing machine, on two occasions, a stamp similar to the one used for stamping instruments, weights, and measures, a man was, at the Central Police Court, recently, fined 26l. 5s., with the option of thirty days' imprisonment.

Two men, until recently in the employ of John & James White, maufacturing chemists, Shawfield Works, Ruther-glen, claimed, at the local Munitions Tribunal, on December 27, the sum of 6l., a week's wages in lieu of notice of dismissal. Evidence was given to the effect that the meu had failed to observe the two minutes' silence on Armistice Day, and other workers had complained to such an extent that the men were dismissed out of consideration for their safety. Judgment was reserved.

The Profiteering Act.

Report on Milk.

THE sub-committee appointed by the Standing Committee on Trust to investigate the conditions of the milk trade "in this country" has issued its report [Cmd. 1102. 1d.]. The following passages are of interest:

From the evidence we have received it would appear that From the evidence we have received it would appear that there is at present no combination or agreement between the manufacturers of such milk products as condensed milk, dried milk, malted milk, etc.; on the contrary, we are assured that there is keen competition in this section of the milk industry. It should be remembered, too, that the present high price of sugar in this country forms a considerable item in the manufacture of sweetened condensed milk, which has to be sold in competition with the imported article.

There can be little doubt that the most hygienic method of distribution would be for all milk to be delivered in bottles. The milk produced under the best conditions should be properly cooled on the farm, and when conveyed to urban districts for disposal it should be passed through central depôts, where it could be pasteurised by approved methods, bottled, and distributed to the public.

The Committee strongly urge the importance of bringing about a substantial increase in the consumption of milk, more particularly among young children. The regular use of milk in the dietaries of children ensures the supply of the food accessory substances or "vitamines" which have been shown to be so essential for growth and development. But apart from this special dietetic advantage of milk, the ordinary food constituents of which milk is composed exist in forms which are most easily utilised by the human body. These constituents in milk compare favourably in cost, weight for weight, with the same constituents in other forms of food, such as meat, fish, and eggs. forms of food, such as meat, fish, and eggs

DESCRIBING the walking-stick of a naturalist, which contained a test-tube, several vials, cotton-weol, methy-lated spirit, pill-boxes, and other accessories, the "Morning Post" asks: "When will some enterprising firm put a first-aid stick on the market?'

Co-operative Societies' Wages Dispute.-A crisis has arisen among a large section of workpeople employed by the co-operative societies owing to the refusal of the societies to grant an application for improved wages and conditions or to submit the matter to arbitration. At a conference of delegates, held in London on January 5. it was agreed to withdraw labour, at the call of the executive council, with or without notice, should the societies' representatives persist in their refusal. The demands include 51, for branch managers and 31, 5s, for branch manageresses as the basis for trade under 100.

per week, with proportionate increases over this amount; 41. 10s. per week for head warehousemen; 80s. to 90s. for adult male clerks, and 55s. to 60s. for adult female clerks; 80s. to 84s. for adult male assistants, and 55s. to 60s, for adult female assistants. A forty-four hour week is demanded, with four days' holiday after six months' service, rising to sixteen days after three years.

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French News. (From the "C. & D.' Paris Correspondent.)

M. Labay has been elected Vice-President of the Paris Society of Pharmacy for 1921, M. Lesure treasurer, and M. Huerre secretary.

DRS. ROUX and CALMETTE, the Pasteur Institute, were the French representatives at the public meeting and banquet held at Brussels in honour of Dr. Bordet's nomination as Nobel prizeman for medicine.

M. CHARLES BERNARD'S proposition for the institution of a special diploma for chemists' assistants (préparateurs en pharmacie) was on the notice paper for discussion in the Chamber of Deputies recently, but the debate was postponed.

THE COMPETITIVE EXAMINATION recently held at Lyons resulted in the nomination of eight male and one female candidates as titulary assistant-pharmacists of the local hospitals. Of nine deputy-assistants (suppléants) three

CLINICAL THERMOMETERS .- A draft law, placing the existing Medical Thermometer Testing Services under the control of the Ministry of Hygiene, is being printed and distributed to the French Parliament. The matter will, it is understood, be reported on by the Hygiene Committee before being discussed,

Poison Law .- The draft law to complete the Sale of Poisons Act of July 19, 1845, modified by the Act of July 12, 1916, recently appeared on the orders of the day in the Senate for discussion, but the Upper House decided to defer its consideration until a second reading. The report has been drawn up by M. Catalogne,

PHARMACISTS' ASSOCIATION LOSES ITS CASE.—The Pharmacists' Association of the Ardèche and Drôme departments prosecuted a grocer (licensed to sell mineral waters) for selling Vichy lozenges. The Grenoble Court of Appeal, before which the case was recently brought up, held that by-products extracted by the Vichy company can be sold by any tradesman holding a mineral-water licence, thus confirming the decision of the Die Police Court (June,

PROFESSOR BOURQUELOT, of the Paris Faculty of Pharmacy, who has been elected the 1921 Vice-President of the Academy of Medicine, was born in 1851 in the Ardennes, and was called to the chair of Galenical Pharmacy in 1897. He has also been a lifelong worker in the Parisian kospitals, interne, and head pharmacist at the Children's Hospital (Enfants-Malades), and subsequently at Laennec. His discovery of the reversibility of ferments and the syntheses of glucosides and polysaccharides are worthy of mention,

PARIS SOCIETY OF PHARMACY.—At the recent meeting of the Paris Society of Pharmacy, the chairman (M. Patrouillard) congratulated Prof. Moureu, recently nominated Commander of the Legion of Honour. The correspondence included Mr. Vaudin's resignation of his post as treasurer, and two candidatures for the corresponding membership of the Society—M. Thumann, of Guebwiller (honorary President of the Haut-Rhin Pharmaceutical Club), and M. Volmar, of the Strasburg Faculty of Pharmacy. M. Bourquelot presented the candidature of M. Holmes, London. M. Magnin, corresponding member at Buenos Ayres, wrote describing M. Trifon Ugarte's new method on the dosage of morphine in opium and its preparations; and M. Juillet, of Montmorphism and its preparations; and M. Juillet, of Montpellier, outlined a process for presenting terpine in therapeutical doses by means of lactic acid, as devised by MM. Galavielle, Cristol, and Portes. Prof. Grimbert read M. Malmy's note on the reaction of caffeine and theobromine with a solution of iodobismuthate of potassium; and a paper by the same author (in collaboration with M. E. Bishard) on same author (in Collaboration with M. E. Bishard) on same author (Collaboration with M. E. Bishard) on same author (in Collaboration with M. E. Bishard) on same author (in Collaboration with M. E. Bishard) on same author (in Collaboration with M. E. Bishard) on same author (in Collaboration with M. E. Bishard). tion with M. F. Richard) on errors in the 1920 Codex Supplement. M. Huerre, who had studied oil of Juniperis Oxycedrus, remarked that the action of halogen acids under certain conditions caused the formation of

crystals composed of dichlorhydrates, dibromhydrates, or diiodohydrates of cadinene, which are identical with the combinations of these hydracids and the (lævo) cadinene of huile de cade. The oil may contain as much as 30 per cent. of cadinene, but the average is 20 per cent. It was afterwards announced that M. F. Martin was awarded a gold medal for his thesis on physico-chemical science, and M. P. Fleury a silver medal. M. Guillame was gold medallist in natural sciences, and M. Philibert obtained the Dubail Prize. The Leroy Prize was not awarded.

Prof. Perrot's Egyptian Report.

The National Office of Vegetable Raw Material publishes the official report of Prof. Perrot's mission. The Professor of Materia Medica of the Paris Faculty of Pharmacy, it will be remembered, left France in company with M. Alland, a well-known importer and merchant, to study the gums of the Egyptian Sudan, under the auspices of the Minister of Commerce, the Governor-General of French West Africa, and the above "National Office," French West Africa, and the above "National Office," sailing on the same steamer as M. Clemenceau. Before the war (remarks M. Perrot) France imported some 3,000 tons of Sudan gum. Up to the present the Senegal and West African output is about 2,000 to 2,600 tons. M. Perrot thinks that, including Nigeria and Mauritania, this might be quadrupled. In 1899 the Egyptian Sudan only exported about 1,890 tons. At Gordon College, Khartoun, M. Perrot* visited the Wellcome Tropical Research Laboratories (now under official maps gement). Research Laboratories (now under official management). Research Laboratories (now under official management). He is convinced that much has yet to be done before becoming thoroughly acquainted with the biology of gum acacias. At Omdurman he visited Badchilds', who practically hold the monopoly of senna, and notes overproduction and heavy stocks (250 tons). Ninety-five per cent. of Sudan gum is produced by the Acacia verek, and is locally known as "Hachab." There is also a gum known as "Seyel," or "Talk"; and a third, locally called "Sorint," produced by the Acacia arabica var. nilotica. The Imperial Institute has endeavoured to establish a scientific system (degrees in gum-sucar), which establish a scientific system (degrees in gum-sugar), which has so far had little practical application. M. Perrot thinks a series of characteristics might be adopted (adhesion, viscosity, solubility, acidity, colour, etc.), and a scientific standard of comparison thus established. He defines gum as "a product of the transformation of contents and membranes of tissues under imperfectly known influences and through various final causes, of which but a few are apparent to us." The "Hachab," or Acacia verek, is indigenous to a sub-desert zone of Africa, stretching from French Senegal to Italian Crythea. The "guenanas" (gardens) in which it grows are natural areas, replanted and extended by human labour. They are numerous along the Kordofan railway line, from Kosti to El Obeid. The Sudan Government has made some efforts to regulate the density of trees and to establish new "guenanas" by seed or transplantation, but little result is yet apparent. The Forest Service has an experimental "guenana" at Ruaba, between El Obeid and Taiara, and M. Perrot thinks French Senegal might usefully copy this idea. The text of the work is illustrated by some interesting snapshots. The system of "tapping" should be carefully studied and applied, and the native compelled to bring his production to public officials. Briefly, the British methods are a useful object-lesson. With regard to senna, Cassia acutifolia is abundant in mountainous country west of Khartoum. It is curious to note that the other Sudan senna (Cassia obovata) is not officinal. Yet this was the first known to botanists and was cultivated in Italy in the early sixteenth century. It is sporadic in the Sudan, and Prof. sixteenth century. It is sporadic in the Sudan, and Prot. Perrot photographed a specimen growing in the street at Khartoum. As this seems to be the only species indigenous to French West Africa, its possibilities appear to him worthy of investigation. Prof. Perrot also noted the castor-oil plant (not yet cultivated on an industrial basis), the Datura, of which two or three species are studied, and more especially the Egyptian henbane (Hyoscyamus muticus), which is rich in atropine.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

PRICE, STUTFIELD & Co., LTD. (P.C.).—Capital, 5,000%. Objects: To take over the business of chemical merchants carried on by Price, Stutfield & Co., at 6 Fenchurch Buildings, London, E.C.

DIAMOND COLOUR AND CHEMICAL CO., LTD. (P.C.). Capital, 3,000%. Objects: To carry on the business of chemical, colour, and dye manufacturers, etc. Secretary: A. van den Bergh, 15 St. Mary's, York.

LOMAS GELATINE WORKS, LTD. (P.C.).—Capital, 1691. Objects: To carry on the business of glue, gelatin, and rertiliser manufacturers, manufacturing chemists, etc. R.O.: Imperial House, Kingsway, London, W.C.

COLCOUGH COLOURS, LTD. (P.C.).—Capital, 5 000l. Objects: To carry on the business of wholesde and retail colour manufacturers, merchants, and chemists, etc. R.O.: Cauldon Place Works, Shelton, Stoke-on-Trent.

SALAC Co., Ltd. (P.C.).—Capital, 1001. Objects: To carry on the business of distillers, manufacturers, preservers, and bottlers of and dealers in "Salac" and other aerated waters, etc. R.O.: Bassishaw House, Basinghall Street, London, E.C. 2.

NORMAN EVANS & RAIS, LTD. (P.C.).—Capital, 20,000l. Objects: To take over the business of colour and chemical manufacturer and merchant carried on by N. Evans at 427-433 Produce Exchange, Manchester, and to adopt agreements with N. Evans and M. Rais,

HENRY CALVERT, LTD. (P.C.).—Capital, 1,0007. Objects: To carry on the business of importers and exporters of and dealers in produce, chemicals and dyes, alkali and chemical manufacturers, etc. R.O.: "May Buildings," 51 North John Street, Liverpool.

REDALUMA PAINT Co., LTD. (P.C.).—Capital, 2,000%. Objects: To carry on the business of paint, enamel, and varnish manufacturers, manufacturers and exporters of and dealers in nitrates, iodine, and other products. R.O.: Dixon House, Lloyd's Avenue, London, E.C.

H. ALEXANDER & Co. (Morocco), Ltd. (P.C.).—Capital 5,000l. Objects: To carry on the business of general import and export merchants, shippers, and dealers in local and foreign produce, chemists, druggists, etc. R.O.: 44-46 Leadenhall Street, London, E.C. 3.

Albert Laboratory, Ltd. (P.C.).—Capital, 2,100l. Objects: To acquire the business of Alfred Gibson, trading as the Albert Laboratory and Flaksol Finish Co., at 12 Albert Street, Belfast, and to manufacture and deal in flaksol, castor oil cmulsion, etc. R.O.: 13 Lombard Street, Belfast,

UNIQUE RAT EXTERMINATOR, LTD. (P.C.).—Capital, 2001. Objects: To take over the business of a rat-poison manufacturer and wholesale and retail druggist carried on by H. Bamber at Primrose Cottage, Copster Green, Salesbury, Lancs, and elsewhere. R.O.: Primrose Cottage, Copster Green, Salesbury, near Blackburn.

ROXBURGH, MORGAN & CO., LTD. (P.C.).—Capital, 20,000%. Objects: To carry on in Scotland or elsewhere the business of manufacturing chemists, manufacturers, refiners, importers and exporters of and dealers in animal, vegetable, and mineral oils, dyes, staius, sanitary and disinfecting preparations, paints, inks, chemicals, varnishes, glues, etc. R.O.: 41 Cavendish Street, South Side, Glasgow.

H. COULES COLLEY, STEPHENS & Co., LTD. (P.C.) .-Capital, 1,000%. Objects: To carry on the business of manufacturers of and dealers in glass-cleaning and polishing-paste, and distributors thereof, manufacturing chemists, etc., and to carry into effect a royalty for the manufacture and sale of a cleaning- and polishing-paste, and for the use of a registered name. R.O.: 123 Westminster Bridge Road, London, S.E.

EDWARDS' DENTAL MANUFACTURING Co., LTD.—An interim dividend at the rate of $7\frac{1}{2}$ per cent. was paid on January 1 for the half-year ending October 31, 1920.

Barclay & Sons, Ltd.—Mr. W. L. Way, who has represented Barclay & Sons, Ltd., 95 Farringdon Street, London, E.C. 4, in South Wales for some years, has been elected to see the beside of directors. elected to a seat on the board of directors of the company.

LEVER BROS., LTD.—The American branch has increased its capital stock from \$12,000,000 to \$150,000,000, and has acquired control of the American Linseed Co. A new corporation is to be organised with a capital of \$183,000,000.

British Cyanides Co., Ltd.—The British Cyanides Co. has now acquired a majority holding in the British Potash Co. by arrangement with the Government and the other shareholders in that company, whose organisation will now be absorbed in that of the British Cyanides Co.

CASSEL CYANIDE Co., LTD.—The net profit for the yearended September 30, 1920, amounted to 95,690l. (against 69,866l. in the previous year), to which is added 18,247l. brought forward. A final dividend on 1,410,000 shares of 18, per share is declared, leaving to be carried forward 17,000/. An interim dividend of 9d, per share was paid in June last on 705,000 shares. The total dividend in the preceding year was 2s. per share.

LENNON, LTD.—The annual report of the directors for the year ended June 30, 1920, states that after making provision for all bad and doubtful debts, trade expenses. directors' fees, etc., the net profit for the year amounts to 71,1791. 16s. 10d., which, when added to the balance of the amount brought forward from 1919, makes a total of 79,3131. 8s. 11d. available for distribution, which, it is recommended, should be disposed of as follows: Dividence of 5 per cent. per annum on cumulative preference shares (already paid), 8,750*l.*; dividend of 9 per cent. per annum on ordinary shares, 21,735*l.* (both free of Union of South Africa income-tax); to building reserve fund, 30,000l.; to special allowances to employees, 2,000l.; balance forward and for income-tax, 16,828l. 8s. 11d. In view of the largely increasing business, the directors recommend that an additional director should be appointed. The retiring directors are Messrs. J. H. Carter, R. Q. Leeds, and W. J. Bickle, who are eligible for re-election and have been duly nominated, and Mr. E. B. Dunkerton has been nominated for the additional directorship. The above report and accounts were adopted at the annual meeting.

BRITISH CELLULOSE AND CHEMICAL MANUFACTURING CO. Ltd.—The report of the directors for the year ended June 30, 1920, state that the accounts presented summarise the results of the transactions of the company, and those of the Operating Company (which is now in liquidation) from their inception up to June 30, 1920. The balance at the credit of the profit and loss account is 85,0071. 4s. 8d., which the directors recommend should be carried forward to the next trading period. The loss on the whole year's operations amounted to 237,739 ℓ . 4s. 1d. The financial year 1919-1920 was one of great difficulty due to the total cessation of the demands by the Government for the war ressation of the demands by the Government for the war products for which the factory at Spondon was primarily established. This necessitated the development of new industries having commercial outlets of a magnitude corresponding to the capital invested in the works, and the installation of a large silk plant was decided upon, which necessitated fresh capital being obtained. The issue of participating preference capital made in March last for the purposes stated at the time was fully subscribed and duly allotted. The construction programme has progressed as satisfactorily as present-day circumstances in the building and engineering trades have permitted, but manufacture was only possible on a comparatively small scale, and the output of carbide, celluloid, spondite, and various chemicals was rendered unprofitable by the dead weight of overhead charges applicable to the whole undertaking. This position was explained to the shareholders by circular dated July 29, 1920, and will be remedied as soon as the output of silk reaches a commercial level.

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Festivities.

Harker, Stagg & Morgan's Annual Dinner.

THE directors and staff of C. R. Harker, Stagg & Morgan, Ltd., London, E. 1, dined together, on January 1, at the Cannon Street Hotel, E.C. Mr. T. White, chairman of the board of directors, presided over a representa-tive gathering, which included ten veterans whose total service with the firm amounts to 448 years. Mr. White recounted the history of the house from its inception in 1820 to the present day. The toast of "The Staff" was proposed by Mr. R. Stagg (managing director), and was suitably replied to by Mr. H. W. Harrie (for the outside staff) and Mr. A. S. Hull (for the inside staff). Mr. S. Morgan proposed the toast of "The Ladies." and Mrs. Lamb replied. A very enjoyable time was spent.

B. W.'s New Year's Party.

THE annual New Year's party of the staff of the "Wellcome" Chemical Works was held at the "Wellcome" Club and Institute on January 1. The rooms of the club-house were prettily decorated. There was a large attendance of members and their friends. A whist-drive was supplemented by musical items supplied by Miss Vaughan and Mr. Kemp, from London, and by a short programme of dances and the distribution of New Year's gifts from the bran-tub. The prizes for the whist-drive were presented by Mrs. Jowett, who, assisted by Father Christmas, also officiated at the bran-tub. A very enjoyable evening closed with a vote of thanks to the Entertainment Committee, proposed by the works manager, Dr. H. A. D. -Jowett.

A Wright, Layman & Umney Luncheon.

The representatives and heads of departments of Wright, Layman & Umney, Ltd., were entertained by the directors to a luncheon at the Hotel Victoria, Northumberland Avenue, London, W.C. 2, on December 29. The occasion was notable in that it was the first reunion of the kind since the great war. After an excellent luncheon, the loyal toasts were proposed by the chairman (Mr. H. C. Wright), who made a comprehensive survey of every department of the business, and comprehensed all gratulated all present on the results attained. Mr. F. N. Layman and Mr. E. A. Umney (managing directors) spoke in confirmation. The senior representative, Mr. T. R. Williams, congratulated the directors on the circumstances in which the sectle-scale of the circumstances in which the circumstances in the circumstanc cumstances in which the gathering met, and gave reminiscences of his association with the company during reminiscences of his association with the company during forty-six years. The high esteem with which he is regarded throughout the trade was testified to by Mr. T. S. Widdowson and Mr. J. L. Egan. Mr. Knight (secretary) and others expressed the loyal intentions of the staff, and Mr. E. B. Layman urged the importance of physical fitness. All the speeches were significant of the scaling relations sprising between the directors and the cordial relations existing between the directors and their executive staff. After a hearty vote of thanks, proposed by Mr. J. W. Agnew, the proceeding concluded with the singing of "Auld Lang Syne."

FERTILISERS PROPAGANDA.—"The Ministry [of Agriculture and Fisheries] is contemplating the appointment of a temporary officer at a salary of 1,000l. a year. plus travelling and subsistence expenses, to organise a scheme for the demonstration throughout England and Wales by the most modern methods of the value to farmers of the proper use of recognised fertilisers. Contributions towards this propaganda have been promised by eight or nine leading associations of fertiliser manufacturers. We recommend, pending the deliberate decision of Parliament on the policy of agricultural education, that fertiliser manufacturers should pay the whole cost of this advertisement of their wares, or that farmers themselves and their various associated bodies should be invited to contribute towards the expense of their own technical education."—Seventh Report from the Select Committee on National Franchistics on National Expenditure.

Coming Events.

Tuesday, January 11.

North London Pharmaceutical Association, Progressive Pharmacy Club, Arundel Hotel, Strand, London, W.C., at 8.30 P.M. Meeting.

Ealing Pharmacists' Association, Eden's Restaurant, High Street, at 8.30 p.m. Mr. John Noble on "Notes and Comments on the B.P.," to be followed by dramatic sketch, entitled "What is the Benevolent Fund for?"

Wednesday, January 12.

Manchester Pharmacentical Association, Midland Hotel, at 3 P.M. Address by Mr. E. T. Neathercoat, President of the Pharmacentical Society.

National Dray and Chemical Union Birmingham Branch (Retail), Central Hall, Corporation Street, Birmingham, at 7 P.M. Meeting of managers and assistants. Speakers: Mr. A. J. Gillian (Midland Organiser) and others.

Leeds' Chemists' Association. Social evening.

Merseyside and Southport Pharmaceutical Freemasons, Exchange Station Hotel, Liverpool. Inaugural dinner. Tickets (12s. 6d. each) from Mr. R. G. Govier, 35 King Street, Wallasey.

Manchester Pharmaceists' Masonic Association, Victoria Hotel, at 6 r.M. Ladies' night. Dinner, whist-drive, and dance. Tickets (10s. 6d. each) from Mr. A. Newton, 20 Salisbury Drive, Prestwich.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, at 8.30 r.m. Professor C. J. Patten, D.Sc., on "Some Problems of Bird Migration."

Thursday, January 13.

Scottish Pharmaceutical Federation, Goold Hall, Room 11, 3 St. Andrew Square, Edinburgh, at 8 P.M. Discussion on "The Scottish Pharmaceutical Federation—What does it mean?"

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, at 8.30 р.м. Dr. F. W. Crossley Holland on "Contracts."

BIRMINGHAM PHARMACUTICAL ASSOCIATION.—A dance will be held at the Grosvenor Kooms, Grand Hotel, on January 26. Tickets (78., lady and gentleman 13s.) from the Secretary, Mr. F. Smith, 221 Soho Read, Birmingham. Supper tickets 8s. 6d. extra.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—A Cinderella dance will be held at the Holborn Restaurant, London, W.C., on January 19, at 7.30 p.m. Tickets (10s. 6d. each, including supper) from Mr. B. R. Wilkinson, 23 Cromwell Place, South Kensington, S.W.

EALING PHARMACISTS' ASSOCIATION.—The annual dinner will be held in the Princess Room, Ealing Town Hall, on January 20, 1921. Reception at 7 r.m. Tickets (10s. 6d. each) from any member of the Committee, or from the Secretary. Morning dress. Ladies specially invited.

Gazette.

Partnerships Dissolved.

KLOEK, J. E., and NYSSEN, G. W., 323 Woolwich Road, London, wholesale perfumery and hairdressers' sundries, under the style of Rose Perfumery Co. and

Lewis, T. H., and Ashcroff, F., 176 Moss Lane East, Manchester, and 5 Chapman Street, Hulme, Manchester, manufacturing chemists, under the style of Lewis & Co.

Moseley, J. F., and Drey, N., 61 Portland Street, Manchester, chemical merchants, under the style of Moseley, Drey & Co.

Taylor, F., and Nochar, J. W., 436 Cheetham Hill Road and 18 Booth Street, Manchester, colour manu-facturers, under the style of the Woodlands Colour and Chemical Co.

PUBLIC EXPENDITURE BEYOND CONTROL.—" Under the [Education] Act of 1918, neither Parliament, the Board of Education, nor the local authorities can control expenditure. Commitments are made and obligations incurred which must be discharged, and it is impossible to forecast where this will end. A vicious circle of divided financial responsibility is established which is now beyond the control of Parliament."-Seventh Report from the Select Committee on National Expenditure.

Mexican Herbs and Drugs.

By E. M. Holmes, F.L.S.

Noticing in the pharmaceutical Press that a number of medicinal vegetable raw products have been received from the secretary of the British Trade Board of Mexico, and were on view at the chemical section of the Overseas Trade Department, at 35 Old Queen Street, Westminster, the writer paid a visit there in order to see if any of them presented possibilities of use in this country. Mr. T. W. Rogers, the gentleman in attendance, most courteously permitted me to peruse all the information that had been provided concerning the specimens, but unfortunately this information was of the scantiest character, even the names of the plants being in several cases incorrectly spelt, and the specimens apparently the scantiest selected without the advice of either a scientific or trade expert, or without intelligent supervision. The specimens consist of seventy boxes, about 3 by 3 by 2 in., containing about an ounce of herb or root in each, and consequently insufficient material for botanists in this country to identify them with certainty if previously unknown to them. A small number occurring also in Europe, such as Ocimum basilicum (Albahaca), Fæniculum vulgare (Hinojo), Matricaria chamomilla (Manzanilla comun, or M. del Pais), Ruta graveolens (Ruta), Rosa centifolia (Rosa de Castile), were so badly prepared that they certainly could not compete with the same herbs as sold in Europe. The majority of the samples of purely Mexican drugs exhibited had nothing to recommend them as superior to the drugs or herbs of other countries. One would have expected to find some of the Mexican drugs and economic products that have attracted attention in commerce during the last fifty years or have found new uses, such as the Mexican "scammony," Ipomaa Orizabensis, or Queretaro jalap (Ipomaa triflora) and "Diabetol" leaves, which have for 200 years at least been used in Mexico as a remedy for diabetes; or Chaparro Amargosa, attributed to Castela Nicholsoni ("Y.B. Pharm.," 1918, pp. 205, 230; 1919, p. 189); or Casimiroa Pharm., 1916, pp. 203, 250; 1919, p. 103); or tanded edulis, which Merck called attention to in 1819 (see "Year Book of Fharmacy," 1902, p. 171), and of which an illustration of the plant and twenty-seven pages of text (pp. 111-138) are devoted in the second part of Mexican Materia Medica (1898). One might also reason-Mexicana and of the "Annales del Instituto Medico Nacional" and of the "Datos para la Materia Medica Mexicana," containing descriptions of the medicinal plants and their uses, might have accompanied the specimens sent for reference for the use of visitors, especially as these works are officially published by the Secretaria de Lomento, Colonizacion é Industria, and could have been obtained without difficulty. A singular illustration of the British method of doing things in bureaucratic positions is given in the bare list of names supplied in the catalogue. A bark labelled "Tlaxlacal" has no botanical name or identification attached, but only this sign ficant sentence: "Six cars of this bark are said to be sent away every month by Germans." Yet the taste of the bark and its colour should reveal to any intelligent observer that the bark contains much tannin, and belongs to the few tanning materials having very little colouring matter, of which oak bark, mimosa bark, and ncb-neb pods are examples, and it would therefore be of considerable commercial importance. The very fact that Germans were utilising a product in quantity should have led to commercial information concerning it and its botanical identification for British use being obtained. Canaigre root (Rumex hymenocephalus) is one of the few important tanning materials that have not escaped notice, but as a regular article of exportation it would be difficult to overlook it. Candelilla wax, a wax possessing properties similar to carnauba wax, is another. The majority of the herbs and roots do not appear to possess any special qualities to recommend them to the attention of either business or countries. scientific men, and one wonders why they were sent; while there are others which suggest possible extensive uses, such as the Yerba del Algel (Eupatorium collinum),

used as a substitute for hops in beer, or the Yerba de la Cucharaia (Macrosiphonia hypoleuca), the powder of which is used as an insecticide for the American cockroach.

It can, however, be easily understood that herbs with such names as Yerba del Vibora (Myriadesmus tetraphyllus) and Yeiba del Cancer, should have seemed worthy of investigation, and that the facts that the former, instead of being used for snake-bite, is employed as an antiperiodic, and that the latter name is applied to so many plants in different districts—e.g., Lythrum vulnerarium and other species, Gomphrena decumbens, Salvia indica, and Acolypha phlaodes, etc.—that it would be difficult to get the same herb twice under the same vernacular name. The specimen of Yerba del Cancer sent is certainly a labiate plant, and might possibly be the Salvia which is used in Guadaljira. A similar diffi-culty would attend the importation of Mexican herbs having names identical with, or similar to, those of European herbs. Thus Poleo is not Pennyroyal, but a form of Mentha arvensis, which is used in Mexico as a substitute for it. Oregano is not Origanum vulgare, but is a verbenaceous plant, Lippia origanoides, which is also called Origano del Pais and Origano de Tehuacan. The small heads of flowers are about the size and shape of those of Origanum majorana, but the leaves are more rigid, are reticulated with prominent veins underneath, and are not downy. The taste resembles that of thymol and carvacrol, and it might be of interest to examine the essential oil. The Azafran sent is not saffron, but the florets of Carthamus tinctorius, and should properly have been labelled "Azafrancillo," which is the name for that drug.

Peonéa, of Mexico, is Cyperus esculentus, but the specimen sent, although bearing that name, is unquestionably not that root, but that of the Paronia officinalis of Europe. It is obvious, therefore, that better supervision should have been exercised, and the collection submitted to a scientific botanist, and commercial expert in drugs, before being sent to this country.

There are, however, a few of the drugs or herbs that deserve notice.

"Estafiate" is the name given to Artemisia Mexicana, Willd., which is one of the plants illustrated and fully described in the Mexican Materia Medica, pt. 2, pp. 95, 110. In this work it is stated to contain santonin in the flowers, and that the extracted active principle agrees with European santonin in all particulars. If this statement be confirmed, there should be no difficulty in cultivating the plant in British Colonies in the Tropics.

Another Mexican drug that might be worth attention at the present time is Lycopodium, which is produced from Lycopodium clavatum, in Orizaba, Oaxaca, etc., especially if it can be obtained free from the adulterations, talc, pollen, dextrin, starch, etc., used for that purpose. Tepopote or Yerba del carbonero, consisting of three or four species of Baccharis—viz. B. Alaman, D.C., B. multiflora, H.B.R., and B. conferta, H.B.K., nat, ord. Composita—has a high reputation in the treat ment of coryza. These species contain resin and essential oil, but in an allied species, *B. cordifolia*, a narcotic alkaloid has been detected by M. Arata, which he named "Baccharanine." Another herb, Acalhuatl, or Arnica del Pais, *Heterotheca involutes*, Cass., is of interest only because it might possibly enter commerce under the name of arnica. The plant is illustrated in the "Materia Medica Mexicana," pt. 2, p. 141, and could evidently be recognised by its different phyllaries and much more numerous florets. A chemical examination of the plant did not reveal any alkaloid or glucoside, but only tannin and an acid resin, and its therapeutical properties were found to be nil.

The juice of the Yerba de la Golondrina (Euphorbia maculata, Linn.), known also as Celidonia del Pais, is used, like that of Chelidonium majus, to remove spots on the cornea, and as an application in ringworm and other skin diseases.

The sample of Peyote labelled "Anhalonium Lewini," is certainly not that species, although apparently one allied to it.

The root of Molle de Raiz (Agave Americana) is used

for washing cloth and silk material, but the Molle de Bolita, the fruit of a series of Sapindus, is probably richer in saponin. It is curious to note that Anagallis areensis, the common scarlet pimpernel of this country, is used for the same purpose in Mexico. Nothing is more clearly evident from these samples than the fact that until Great Britain selects her consuls and commercial agents from the most intelligent and painstaking classes of the community, she cannot hope to retain commercial pre-eminence. Such positions should be filled, not according to political influence, but with regard to commercial and scientific knowledge and saroir faire.

Poisoning Statistics.

The eighty-second annual Report of the Registrar-General of Births, Deaths, and Marriages in England and Wales, covering the year 1919, has just been issued. The chief features of interest to the drug-trade are compared with those of the preceding year in the following table:

	1918	1919
Population Marriage-rate Birth-rate Deaths Death-rate Poison deaths (corrected figures) Ratio of deaths from poison	33,474,700	36,800,000 19.7 per 1,000 18.5 per 1,000 5 4,203 13.7 per 1,000 Accident 119 Suicide 243 Total 362 1 in 1,393

It may be mentioned, in passing, that the increase in the estimated population is mainly accounted for by the presence of "an allowance for the armed Forces at home," the estimates for 1915-18, inclusive, having comprised no males other than those in civilian life. This has had the effect of reducing the death-rate more than would therwise have been the case. The figures for deaths by poison have been corrected, following our usual practice, so as to remove from the list deaths due to coalgas, anæsthetics administered by medical men, insectings, and so forth. The statistics collected during 1919, he first complete year since the Armistice, are of considerable interest. For the twenty-one years, 1894-1914 nclusive, the total poisonings averaged about 800, in the proportion, roughly, of one accidental to two suicidal leaths. Since 1915 the combined figures have not reached 00. The totals under "Kind not stated" are the owest on record, and indicato increasing attention to letail in coroners' courts. It will be seen from the following table that the poisons which reach double figures a either column do not, as a rule, exceed the averages or the thirty-five years, 1882-1916, although in some intances they show a tendency to rise:

	Negligence	and Accident	Suicide		
Poison	1919	Average, 1882-1916	1919	Average, 1882–1916	
nmonia rbolic acid ydrochloric ydrocyanic ium, etc. :alic acid tassium cyanide	5 18 11 1 15 2	9.7 25.0 10.9 3.1 73.9 6.0 2.4	10 38 40 25 12 37 13	9.8 97.6 43.5 25.9 52.8 53.7 22.3	

re rivalry between carbolic acid and oxalic acid as a icidal instrument, dating from 1903-04, continues: the ro have maintained their present order of frequency ice 1915, but are now almost level. The figures for sol, however, are beginning to have some effect in this nuection. Cocaine, never a really popular poison on her side of the list, notwithstanding the hectic spasms the lay Press, shows a clean sheet in the year under

review. The presence of two newcomers—adrenaling thloride and sodium bicarbonate—may be noted; and it may be suggested, with regard to the latter, that possibly sodium sulphocarbolate, a recorded fatality from which was published in The Chemist and Druggist (1919, p. 504), is intended. The full table is appended:

Poison	Negugence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
	1917	1917	1918	1918	1919	1919
A.B.C. liniment	1 2	1	1	1	=	_
Acetic acid			=	3	3	2
Aconite Adrenalin chloride		=		1	1	=
Ammonia	5	11	5	11	5	10
Antimony chloride	; =	1	1 1	- 2	=	=
Antimony, tartarated	1	- 0	-	-	3	-
Arsenic and strychnine			1	-		_
Aspirin	1 7		1	-	1	=
Belladonna	2	3			3	2
Benzene and carbon bisulphide	1		2			=
Boric acid	. 1	-	_	_	-	_
Camphor and camphorated of	5 - 1 4 - 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11		2 7 7	3	2 1 1 2 2 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4
Carbolic acid	9	32	12	30	18	38
	=		2	1	1	_
Chloral and potassium bromide Chlorine	-	-	ī	_		_
	4	1	3	2	6	2
Chlorodyne	· _	3	1	1	2	1
Coal-tar and preparations	_	_	1		1	_
Cocaine	. 1	1	1			=
Creosote	,			1	1	-
Cresolene	1	_	4	1	1] -
Daisy powder	_	_	7	=	ï	_
Dutch drops Ergot			1	1		=
Eserine	_	-	-	î	-	
Fluoric acid	, A	1 =			_	1
Formalin	3	26	- 7	25	11	40
Hydrocyanic acid	2	12	_	14	1	25
Iodine		1 2		1		1
Jeyes' fluid	_		-	-	-	3
"Lead"	=	1	1	=		=
Lysol	2	. 1	4	7	3	7
Mercury perchloride	2		1	6	1	2
Methyl alcohol	1 2	1	1 = 1	-		2
Nitric acid	1		4	2	1	ī
Nitrous acid Opium, laudanum, & morphine	16	4	22	11	15	12
Oxalic acid	0	26	2	11 24	2	12 37 6 — 13 1
Paraldehyde Phosphorus	_	1	1	3 1 —	1	6
Potassium bichromate	, <u> </u>		-	1	1	_
Potassium cyanide	2	25		18	2	13
Potassium oyalate	$\frac{-}{2}$	1 25 —	-	18 1 —	2 	1
Quinine		_	4	=	- 1	_
Rhubarb, powdered St. Jacobs Oil	· = 1	1	_	_	1	_
Sanguinaria	1	-	- 1	_	-	_
Soap liniment Soda, caustic	1		5	=	1	_
Sodium bicarbonate	' <u>-</u>	_	_	_	ī	_
Solanine	; =		2			_
Strychnine and nux vomica	2	7	9	12	5	8
Sulphonal	1	=		_ :		_
Sulphuric acid	2	2	-		2	1
Trional	1	_	=		=	_
Turpentine and preparations	2	- 8	_			-
		0	9	٥	7	4
Veronal and morphine	-	_	_	_	1	_
Veronal	<u>-</u>	Ξ	=	=	1	=
Veronal and morphine	1 1 - 2 1 1 2 - 1 2 8 - - 1 2 8	1 1 - - 7 - 2 - - - 8 - - - - - - - - - - - - - -	291	12 - 1 - 3 23	1 1 1 5 - 2 - 4 1 1	- - - - - - - - - - - - - - - - - - -

^{* 1 &}quot;Kaputine powders"; 1 "head and nerve powder."

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS.

A MINTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopæia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture. Students' applications for portions of the mixture of

Students' applications for portions of the mixture of salts (accompanied by a stumped and addressed envelope, not a stamp merely) will be received up to Tuesday, January 11, on which day the samples will be posted. Students' reports will be received up to Saturday, January 22. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the third exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

Report on the December Analytical Exercise,

The powder distributed to students on December 7 contained two parts by weight of cupric hydroxycarbonate, one part of ferrous oxalate, and seven parts of potassium sulphate. The calculated composition of such a mixture is:

Cu		 	 11.5
Fe		 	 3.1
		 	 31.4
CO_3		 	 5.4
C_2O_4		 	 4.9
SO_4		 	 38.6
$^{ m OH}$		 • • •	 3.1
$\rm H_2O$	• • •	 ***	 2.0
			100.0

The powder also contained, as impurities, traces of an ammonium salt, of lithium, and of a chloride. Samples of the powder were distributed to seventy-seven students, and fifty-four reports were sent in for examination. The failures in the detection of the several constituents were:

(a) Metallic radicals: Copper, 1; iron, 3; potassium, 7.

(b) Acidic radicals: Carbonic, 12; oxalic, 51; sulphuric, 3. The evolution of water in small proportion when the powder was heated in a dry tube was very generally overlooked, being observed and reported in isolated cases

In nearly every respect this exercise was without complication, and, as a consequence, there is a large number of high scores; but the analysis did present one complication, and that an unforeseen one, which has materially reduced almost every score, while, at the same time, furnishing an exceptionally interesting example in illustration of a point in the examination for acid radicals which only arises occasionally. The matter in question concerns the detection of the oxalic-acid radical. Doubtless many of the fifty-one students who failed to detect this radical will learn of their failure with some surprise, since nearly all of them tested specially for it at the usual stage and in the usual way—that is, by means of solution of calcium sulphate added to a portion of the sodium-carbonate extract acidified with acetic acid. This prepared solution did not, however, yield any precipitate of calcium oxalate when so treated, and the fact requires

some explanation. When the original powder was boiled for some time with water and considerable excess of sodium carbonate, and the resulting dark-brown turbid mixture was filtered, the liquid which passed through had a fine blue colour, which suggested the presence of copperbut which, strange as it may appear, was not mentioned. nor seemingly was it regarded as an unusual thing by a single correspondent. When this filtrate was acidified with acetic acid, the colour became much paler, but the resulting solution did not yield any precipitate with calcium sulphate (as already mentioned), while with silver nitrate it only gave the faint turbidity due to the trace of a chloride. This anomalous behaviour would indicate that the simple radical of oxalic acid was not present in the sodium-carbonate extract, but that the latter contained alkali metals associated with a complex cuproxalic radical whose calcium and silver salts were soluble. It was quite a simple matter, however, to break up this complex radical by adopting the recognised procedure which should be applied before testing for the majority of the acidic radicals when "heavy" metals (such, for of the acidic radicals when "heavy" metals (such, for example, as copper or antimony) are present in the sodium-carbonate extract. This procedure consists in suitably acidifying this extract, passing hydrogen sulphide through it as long as precipitation takes place, filtering, and then examining the filtrate. In the present instance slight acidification with hydrochloric acid, passing of hydrogen sulphide, filtration, and addition to the filtrate of ammonium hydroxide in slight excess, followed by acidification with acetic acid, furnished a solution in which calcium sulphate at once produced a precipitate of calcium oxalate. As an example of a somewhat analogous case, it may be mentioned here that tartar emetic, a substance now regarded as the potassium salt of a complex organic radical which contains the antimonyl group (SbO) in association with the acid radical of the tartrates (C₄H₄O₆), differs in several of its reactions from antimonious salts and also from tartrates, but that in hydrochloric-acid solution it interacts with hydrogen sulphide, yielding antimonious sulphide and potassium chloride along with free tartaric acid, the last-named of which can then be recognised in solution by the usual tests.

The statistics of the reports concerning the stage of oxidation of the iron are as follows: Of the fifty-one students who detected iron, fourteen reported it as ferrous, eleven as ferric, four as partly ferrous and partly ferric, while two were doubtful and twenty simply reported iron without remark as to its condition. In point of fact, the composition of the mixture rendered it difficult to ascertain further than that part, at least, of the iron was originally in the ferrous state; but, on the other hand, a number of the attempts to settle the question were not capable of furnishing accurate information regarding the original stage of oxidation.

There was much similarity in the general features of the reports sent in by the large number of students who detected all the main constituents of the powder except the oxalic-acid radical, and those reports which gained from eighty-five to about seventy-five marks differ from one another chiefly as regards the completeness with which the preliminary testing is detailed and in the accuracy of the conclusions which have been deduced from this part of the analysis. Comparatively few replies to the writers of these reports are included among the notes to correspondents below.

Prizes.

The First Prize for the best analysis has been awarded to:

Isa Shephard, c/o Jolly, 87 Gray Street, Broughty Ferry.

The Second Prize has been awarded to:

John R. Sharp, Parkside, 65 Wantage Road, Northampton.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:							
I. Shephard	(1st P	rize)	90	Scopolamine		80	
J. R. Sharp (Žπd Pr	rize)	86	Delta (Manchester)		79	
Parex			85	Figola		79	
Sucrose			85	Nomen		79	
Xenon			85	Hemidesmus		78	
Caglio			84	Julius		78	
Centigrade			84	Neon		78	
Guillaume			84	E.R.y.i.y		77	
Protophloem			84	Motto		75	
Protoxylem			84	Delta (Liverpool)		68	
Spiral			84	A Priori		65	
Ubique			84	Xylem		63	
Cishar			83	Niobe		61	
Gar-Gar			83	Ding Dong		60	
Bert			82	Soo-See		60	
Maf			82	Brer Rabbit		58	
Vingt-et-un			82	Cogry		57	
Digitoxin			81	Thyroid		55	
Essayeur			81	Celurca (?)		54	
Floramye			81	Isomer		53	
HF, KF			81	Hirudo		50	
K. T			81	Oglax		45	
М. В			81	Bob		40	
Kainite			80	Cajeput		24	
2. Correspondents who are qualified:							
Hibiscus			80	Rossendale •		84	
Isotope			80	Silicula		84	
R. d'E			76	Т. Р		26	

To Correspondents.

I. Shephard.—You have not obtained full credit for reporting the oxalic-acid radical because, in view of the facts mentioned in the general remarks above, it did not appear that you had proved its presence beyond all reasonable doubt. Your method of dealing with the iron-group precipitate was not the best available, and it would seem that you added lead acetate, as a test for chromate, to a solution which had been obtained by treating a residue with hydrochloric acid.

CAGLIO.—Dilute—not concentrated—nitric acid should be added to a precipitate produced by barium chloride, in order to discriminate between barium sulphate and most other barium salts. Dilute hydrochloric acid is still

CENTIGRADE.—Calcium, as impurity, was most likely

introduced in tap-water.

Guillaume, K. T., and Others.—Nearly three-fourths of the powder "insoluble" in water as reported by you, dissolved in that solvent.

PROTOPHLOEM, MOTTO, AND OTHERS .- You omitted to test for cadmium, although it is a B.P. metal.

PROTOXYLEM.—You report that you "dissolved the powder in water"—a statement which is about as inexact as the report that the powder was "insoluble" in water: vide ante.

SPIRAL.—You left the composition of the precipitate supposed to contain nickel or cobalt an unsolved problem. We have been unable to follow your "confirmation" of the presence of a sulphate by the addition of bromine water to the precipitate of barium sulphate or to the filtrate or the washings from that precipitate—to which of these the bromine water was added is not clear.

DIGITOXIN.-You should state in detail what acids you test for, and the results of these tests. In absence of this information it is impossible to judge as to whether

your procedure was complete or correct.

FLORAMYE.—Your report upon the November analysis

has been awarded 94 marks.

M. B.-Yours is the only report, except one, in which the slightly crimson tinge in the potassium flame is mentioned, and it is the only one in which this tinge is suggested as due to lithium. That a trace of lithium was really present was quite distinctly revealed by aid of the spectroscope, but it was not easily recognisable otherwise. Do not use magnesium sulphate as a test for carbonate or

bicarbonate until you have thoroughly familiarised yourself with its extreme limitations: when you have done so you will most likely have no desire to use it at all.

KANNIE.—You report: "Heated in dry test-tube. Nil." Here are some of the observations made by others in connection with the same test: 1. Decrepitation. 2. Evolution of water vapour. 3. Condensed drops of water were neutral to litmus papers. 4. Permanent darkening in colour, residue being almost black. 5. Evolution of a gas which rendered a drop of lime-water turbid and did not support combustion. 6. Non-volatile residue changed the colour of moistened litmus paper from red to blue (a change which was also produced, however, by the original powder). This contrast exhibits clearly the difference between attentive and casual observation. Apparently you omitted to test for magnesium.

Scopolamine.—You omitted altogether the test, often most valuable in its indications, which is referred to in

the immediately preceding reply.

Delta (Manchester).—Careful testing for traces of a nitrate did not confirm the conclusion at which you arrived.

FIGOLA, SOO-SEE, and OTHERS.—Failure to get any precipitate in the silver group does not render it unnecessary to test for lead in the copper-group precipitate. Compare the general remarks respecting lead in last month's report.

HEMIDESMUS.—The precipitate which you obtained in testing for an oxalate by means of calcium chloride consisted of calcium sulphate. See the remarks regarding

the oxalate above.

Julius.—Particulars regarding the testing for aluminium and chromium should have been given. Compare the reply to "Digitoxin."

NEON.—You were not justified in omitting any tests

for aluminium, chromium, and manganese merely because the iron-group precipitate was reddish-brown.

Delta (Liverpool).—If you carried out the addition of group reagents as described in your report it is incomprehensible how you failed to obtain any iron-group precipitate.

NIOBE.—You made two separate mistakes in testing for the presence of chromium by means of lead acetate. In the first place the reagent was added to a solution which contained free hydrochloric acid, and in the second place this solution, from its mode of preparation, could only have contained chromium as chromic chloride and not as a chromate. Note carefully that lead sulphide is

dissolved by nitric acid.

THYROID.—In the systematic analysis you left bariumgroup and alkali-group metals, also magnesium, not tested for-at least in so far as can be judged from your

report.

Isomer.—You report such a variety of happenings which ought not to have occurred that it is not possible to ascertain just what you did that was wrong. supposed nickel may have been iron. The conclusions from reactions regarded as indicating tin, a cuprous salt, and a thiosulphate are misinterpretations or selfdeceptions.

OGLAX.-You will be in a position to write a more complete and detailed report on future analyses if you study the general remarks and replies printed this month and last month and put into practice some of the points dealt with, in regard to which you may readily recall

shortcomings in your present report.

Cajeput.—You will not progress quickly in the analysis of mixtures unless you proceed upon systematic lines. Stray dashes to test for this or that possible constituent without effecting separations may sometimes be adopted by an experienced analyst, but they should never be attempted by a beginner.

Hibiscus.—Had you followed up the suggestion of charring which you observed on igniting the residue from the evaporation of the hydrogen sulphide filtrate you might have been led to detect the oxalic acid radical. The calcium may have been introduced in tap-water.

THE NEXT CENSUS of Great Britain is to be taken on April 24 in respect of all persons who are alive at midnight on that date.

The Dentists Bill.

THE Chemists' Dental Society has sent out a circular to its members asking them to state their opinion on (a) the Bill as a whole; (b) clause 3, page 4; and (c) paragraph 3 (ii.), page 3, etc. The members are also asked to report interviews with members of Parliament to the secretary, Mr. Benson Harries, 84 Commercial Road, Newport, Mon.

IRISH APOTHECARIES,

Attention should be directed to the position relating to Attention should be directed to the position relating to Irish apothecaries. By Clause 1 (3) (a) licentiates of the Apothecaries' Hall of Dublin are exempted from the provisions of the Bill as duly qualified medical practitioners, but by the definition in the Interpretation Clause 11 (3), it is stated that "any reference to a registered chemist and druggist shall include [in Ireland] a reference to a registered druggist and to a licentiate apothe-Whether this is due to ignorance or malice aforethought we do not know; but it is to be hoped that the Apothecaries' Hall of Dublin will act promptly in the interests of their licentiates.

PRESS OPINIONS.

The following letter appeared in "The Times" of December 31, over the signature of Mr. J. W. Roberts, President of the Chemists' Dental Society:

Your complaint of the Ministry of Health's treatment of panel patients is very timely, in view of the brutality of one of the clauses of Dr. Addison's new Dental Bill, reviewed by your medical correspondent yesterday. A person in a remote district is to be allowed to have a tooth extracted by a chemist, on an urgent occasion, but it must not be done painlessly under a penalty of 100%. The groans and moans of a poor patient suffering the exeruciating agony of a tooth being taken out without an anæsthetic are evidently in accordance with the latest wishes of the medical hierarchy safely enseoned at the Ministry of Health. Anæsthetics are used when even criminals in our gaols are Anæstheties are used when even eriminals in our gaols are operated upon, but not so the wretched man or frail woman have toothaclie when there is no registered lical man in the neighbourhood. No matter dentist or medical man in the neighbourhood. No matter whatever their reason, the calculated cruelty to their fellow who dares to human beings in that one clause is unthinkable and inexeusable.

The letter was reproduced in the "Evening News" with the heading, "Pain by Order."

A correspondent of the "British Dental Journal"

writes to our contemporary as follows:

writes to our contemporary as follows:

Since discussion is likely to centre round matters of importance but of passing interest, it would be well not to forget those which are permanent. Therefore it would be of value if members of the Association could be informed exactly what portions of the old Act will remain in force. It appears the Dental Board will not control education, but that its duties will be confined to (1) forming the Register; (2) finding "the facts" in cases of alleged unprofessional conduct on which facts the Council will adjudicate. (3) initiating prosecutions in cases of alleged in professional conduct on which facts the Council will adjudicate; (3) initiating prosecutions in cases of alleged infringement of the Act; (4) minor matters, such as making suggestions for the consideration of the Council as to the disposal of surplus monies. But in effect these are not exclusive privileges, for by Section 13 the Council has power to act by its executive committee. All this may be perfectly right, but unfortunately the Council does not appear to have been able to persuade the Ministry to give effect to the Council's expressed desire that, in the interest of efficiency, dentists should be represented on the Council. With regard to the Board, it is somewhat perplexing in these democratic days to find it is denied the right to elect its own chairman; also noteworthy and of portentous omen that by making this an extra appointment the Board's number becomes thirteen. becomes thirteen.

The British Dental Association has not yet expressed its opinion on the Bill officially, the position being thus

explained in the official organ:

explained in the official organ:
The policy of the Association with regard to the Bill remains to be laid down, though it may be presumed that the resolutions dealing with the Report of the Dentists Act Committee, adopted by the Association, will form the groundwork on which the declared policy will be built. Under these circumstances it would clearly be improper to enter upon a critical discussion of the Bill or to write

anything which might be interpreted as an attempt to prejudge the issue or to lead opinion. We must, therefore, be content to draw attention to the salient features of the Bill, but we may perhaps go so far as to indicate the points of view from which, in our opinion, the Bill should be judged. It is right and natural that, as every member of the profession will be more or less personally affected, the provisions of the Bill will be first considered from that aspect; but the profession as a whole (which is not quite the same thing as the individuals comprising it), and the future of the profession, should not be forgotten—legislaanything which might be interpreted as an attempt to preprofession, should not be forgotten-legislation is not only for to-day, but for a period stretching far into the future. Then, again, it may be permitted to remind into the future. Then, again, it may be permitted to be acching the profession that he is also a citizen of the Empire; that the eventual fate of the Bill rests with those citizens who go to form the Houses of Parliament; and that just so far as we are able to detach our view-point as citizens just so far as we are able to detach our view-point as citizens from our special critical faculty as dentists dealing with a dental problem shall we be enabled to formulate our opinion not only of what is good or bad, progressive or reactionary, ideal or debased, sound or unsound, but also of what is reasonable, practicable, and expedient. The Bill is based frankly on the Report of the Dentists Act Committee, but differs from it in certain more or less important particulars. The whole raison d'être of the Bill rests upon the first Section, which enacts complete prohibition of practice by unregistered persons. Subsection 3 provides for three exceptions to complete prohibition, of which those dealing with emergency operations and public which those dealing with emergency operations and public dental service are somewhat different in scope from the recommendation of the Committee,

Bankruptcy Report.

Re Lysle Export & Import Co., Ltd., 47-48 Berners Street, Oxford Street, London, W. The creditors and shareholders of this company (in liquidation) met on December 30 at the Carey Street offices of the Board of Trade, Lincoln's Inn, W.C. Mr. E. T. A. Phillips, Official Receiver, reported that the company was registered in December 1919, with a nominal capital of 20,000l; it was one of a group of companies promoted by Mr. John de Lysle (a bankrupt), who recently flew to France, and was now stated to be in Brussels. The company was formed to acquire and carry on the business of export and import merchants and general dealers in perfumes and toilet, chemical and medicinal preparations, the consideration payable to Mr. de Lysle being 10,000%, in shares; no such business as that described in the purchase agreement had been previously carried on by that gentleman. Advertisements were inserted by Mr. de Lysle in newspapers offering a position to gentlemen prepared to invest capital in the company, and in response Mr. H. G. French subscribed 1,000/. and Mr. Wm. L. Exner 2,000/. In February 1920 there was an issue of 5,000/. 10 per cent. debendent tures repayable on November 1, 1920; of these 3,000 were issued to Mr. de Lysle, and 2,000 were held against further advances, and were eventually issued to Major G. D. Puller. The trading resulted in a gross loss of 3,738/., and the present position was that there were total liabilities of 12,503/.; a deficiency of 9,884/. in assets to meet the liabilities, and a total deficiency of 22,886/. with re-gard to shareholders. The failure of the company was attributed partly to the extravagant methods adopted by Mr. de Lysle, and further, to injudicious purchases of stock. A resolution for the Official Receiver to continue in charge of the liquidation was confirmed.

Deed of Arrangement.

Bottomley, Bernard, 25 South Street, Keighley. herbalist. Trustee, P. S. Booth, Exchange Chambers. Bixteth Street, Liverpool, accountant. Dated December 17; filed December 22. Liabilities, 527l.; estimated net assets, 2801.

U.S. DYES PRODUCTION.—The United States Tariff Commission gives the production of dyes in 1920 at 63,000,000 lb., or 38 per cent. over pre-war imports.

Births.

Daniel.—At 272 High Road. Wood Green, Loudon, N. 22, on December 28, 1920, the wife of George B. Daniel, chemist and druggist, of a son.

STARKEY.—At "Nant Glyn," Paget Street, Wolverhampton, on January 1, the wife of William Starkey, chemist and druggist, of a son.

Marriages.

AIREY—PEARCE.—At St. Silas's Church, Sheffield, on December 30, 1920, by the Rev. W. P. Wright, M.A., George F. M. Airey, elder son of Mr. G. R. Airey, chemist and druggist, to Dorothy Gladys, elder daughter of Mrs. Pearce, Edge Hill Road.

Bone—RAYNER.—At the Parish Church, Nuneaton, on December 25, 1920, by the Rev. Canon Deed, Alfred Allan Bone, M.P.S. Chislehurst, to Madeleine, youngest daughter of the late Councillor Alfred Rayner, "Glendower," Manor Court Road, Nuneaton.

RATCLIFFE—STEER.—At St. James's Church, Exeter, on December 27, 1920, Ernest Ratcliffe, chemist and druggist, Darwen, to Florence Winifred, second daughter of Mr. H. A. Steer, 36 Priory Road, Exeter.

Deaths.

BAYNES.—At Pembroke Nursing Home, Bristol, on December 25, 1920, of pueumonia, Mrs. Baynes, widow of the late Mr. Edward Baynes, druggist, York, aged sixty-four.

Brayne.—At 84 Far Gosford Street, Gosford Green, Coventry, on December 22, 1920, Mr. John William Ward Brayne, chemist and druggist, aged sixty-four.

KABERRY.—At Southport, on December 26, 1920, suddenly, Mr. William Todd Kaberry, chemist and druggist, 3 Trinity Road, Chorley, aged fifty. Mr. Kaberry, who was a native of Rochdale, was for some years in business in Portland Street, Southport. In 1909 he relinquished his pharmacy and became a manager to Boots, Ltd., at Chester, and subsequently at Chorley. He leaves a widow. At the funeral, which took place at Southport on December 30, representatives of the staff of Messrs. Boots attended and a wreath was sent on their behalf.

LESLIE.—At 5 Castle Street, Ludlow, on December 22, 1920, Mr. William Leslie, chemist and druggist, aged forty-three. Mr. Leslie was for some years at 92 and 93 High Street, Haddington. He disposed of this business about seven months ago and acquired the Ludlow pharmacy.

SURFLEET.—At Restholme, George Street, Louth, Lincolnshire, on December 20, 1920, Mr. Walter Surfleet, retired chemist and druggist, eldest brother of Mr. A. F. Surfleet, Ph.C., High Street, Guildford. Mr. Surfleet, who qualified in 1880, was in business at 5 Kingsbury Square, Aylesbury, for twenty-five years. He disposed of his pharmacy in 1911 and retired to Cheltenham, whence he removed last March to Louth, his uative town.

Wallsgrove.—On December 28, 1920, Mr. John Charles Henry Wallsgrove, chemist and druggist, for many years in business with his uncle, the late Mr. Heury Hands, chemist and druggist, Fenny Stratford, aged fifty-six.

Personalities.

SIR RICHARD COOPER, Bt., M.P., sails on a visit to South America on January 21.

Mr. J. JOYE, retired chemist, Southport, has been elected a member of the local Profiteering Committee.

DETAILS of a proposed gift to Nottingham from Sir Jesse Boot, Bt., were published on January 3. A road

three miles long is to be constructed at an estimated cost of 200,010l.

Mr. Thomas Standing, son of Mr. W. Standing, chemist and druggist, Darwen, has been awarded a bronze medal and prize for proficiency in the recent City and Guilds of London examination held at the local Technical School.

The following are among those whose names were published on January 1 as recipients of the honour of knighthood: Mr. Samuel Squire Sprigge, M.B., M.R.C.S., editor of "The Lancet"; Mr. Ernest Godwin Swifte, K.C., chief Metropolitan police magistrate in Dublin; Mr. James Walker, F.R.S., D.Sc., professor of chemistry in the University of Edinburgh; Mr. Dawson Williams, M.D., M.R.C.S., editor of "The British Medical Journal."

Business Changes.

T. Kakiuchi & Co., importers and exporters, have removed to 127 Fenchurch Street, London, E.C. 3.

Mr. Thomas Daykin, chemist and druggist, has taken over the business of Mr. E. C. Knowles, chemist and druggist, 123 Wellgate, Rotherham.

Mr. T. C. Jones, chemist and druggist, formerly of Counah's Quay, has acquired the business of the late Mr. R. Mumford, chemist and druggist, Bridgend.

MR. W. Suter, late of W. Suter & Co., chemical merchants, Edmund Place, London, E.C. 1, is carrying on business at 2 Water Lane, Twickenham, pending removal to new premises.

The business of W. Suter & Co., 12 Edmund Place, London, E.C.1, has been acquired by one of the former partners, Mr. A. J. Warner, who will discharge all liabilities and collect all debts.

Mrs. Steven, wife of the late Mr. R. Steven, chemist and druggist, Liverpool Road, Newcastle, Staffordshire, whose death was announced in our last issue (p. 69), is carrying on the business under qualified management.

Garrard & Sons, produce brokers, Dunster House, Mincing Lane, London, E.C. 3, have admitted into partnership Mr. Thomas George Cuthbert Garrard, who has been associated with the firm for the past thirteen years.

Mallagh & Co., chemical and drug merchants, have removed to 32 Great Dover Street, London, S.E. 1, near London Bridge. Their telephone numbers are Hop 5428 and 5429; telegraphic address, "Chemorol, Phone, London."

Henry Wheeler & Son, import and export commission merchants, 9 Great Tower Street, London, E.C. 3, announce that Mr. John Frederick Potton, who has been associated with the firm for many years, has been admitted into partnership.

PRIORIS & FERRAND, essential-oil merchants, have dissolved partnership. Mr. G. Ferrand will continue the business, care of Gaston Jacob & Co., Ltd., Dalmeuy House, 24-26 Monument Street, London, E.C. 3. Mr. J. Prioris is shortly leaving the country.

The Casson Chemical Co., Ltd., manufacturing chemists, Westbourne Hall, London, W. 2, have taken over the business of J. Savage & Co., Ltd., chemists, 140 Listerhills Road, Bradford. Mr. Harold Savage, chemist and druggist, has been appointed a director of the company and will superintend the buying.

FAULKNER & WINSOR (late Falkenburg & Hesse), 28 Fenchurch Street, London, E.C. 3, announce that Mr. E. W. Winsor has retired. The business will be continued under the same style by Mr. W. H. Faulkner, and Mr. L. Chotzen, who has been associated with the firm for many years, will sign on behalf of the firm.

GOUGH, KIDSTON & Co., chemical manufacturers and merchants. 43 and 45 Great Tower Street, London, E.C. 3, announce that they have taken over the business of W. M. Kidston & Co., importers of gums, waxes, etc. The present proprietors, Mr. W. M. Kidston and G. E. Cary, have been partners in the firm of Gough, Kidston & Co. since its formation, in 1905.

Trade Notes.

CIMOLITE PREPARATIONS.—Alterations are announced in the price of Taylor's Cimolite preparations in Mr. John Taylor's advertisement in this issue. The new prices came into force on January 1.

ARTHUR BRANWELL & Co., Ltd., 43 & 45 Great Tower Street, London, E.C. 3, have been appointed sole representatives for the United Kingdom for P. Poizat Fils et Cie., herb growers and wholesale druggists, Lyon-Vaise,

EVANS' PASTILLES.—Evans Sons Lescher & Webb, Ltd., Liverpool and London, call attention to an alteration in the terms for Evans' Antiseptic Throat Pastilles. The discount has been increased, the wholesale and retail prices being set out in the advertisement in this issue.

NADCO- DYES .- Specially adapted for home use, the Nadco by S.—Specially adapted for Information, the Nadco dyes are about to be extensively advertised to the public. The British representatives are Harold F. Ritchie & Co., Ltd., 33 Farringdon Road, London, E.C. 1. An announcement regarding these dyes is made in this issue, and particulars given of the stock packages, sell at 1s. a packet, the price being protected.

ESSONALINE SOLID BRILLIANTINE.—The Essona Perfumery Co., Essona Works, London, S.W. 19, give in their advertisement particulars of an advantageous offer of Essonaline solid brilliantine. This product is put up in a unique manner, round aluminium containers being employed with the name embossed on the lid, making a very handsome packing. The terms and other information are given in the announcement.

RIVERA SOAP.—We have recently had an opportunity of trying the Rivera toilet soap made by Edward Cook & Co., Ltd., Bow, London, E. As chemists are aware, the perfume has been improved, and the soap is now distinguished as being scented with the Rivera Victory Bouquet. The perfume itself is also sold, and a seasonable present is a casket with four cakes of the soap and a bottle of Rivera perfume.

THERMOMETER DON'TS.—Powell's Thermometer Co., 55 Hatton Garden, London, E.C. 1, one of the chief British makers of clinical thermometers, has in this issue an interesting page of "Thermometer Don'ts for 1921, conveying several truisms that are apt to be overlooked at a time when the blight of Government control has reduced the thermometer trade to a dead level. Everybody should ponder over this page of "Don'ts.

Ambrosia Dried Milk.—Thomas Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C. 4, are sending out a useful "sticker" for placing on the inside of the window of the pharmacy. It advertises Ambrosia dried milk, a British-made food for infants, and suggest to potential customers that other baby requisites are stocked. A postcard request is all that is required from chemists who would like a few of the slips.

DIARY NOTES .- Will our subscribers please note that the address of Mr. John G. Robbins (on p. 150 of The the mist and Druggist Diary, 1921) should be 130 Ronford Road, Stratford, London, E. 15, and that the address of the Trans-Continental Agencies, Ltd. (on p. 151), is now 14 Southampton Street, Strand, London, W.C. 2.— Since the *Diary* was put to press the price for a complete set of Spence's soothers (p. 408) has been increased from 22s. net to 24s, 1d. net.

Brazilian Carnauba Wax.—The total exportation of carnauba wax from Bahia during 1919 amounted to 2.858 bags of about 140 lb. each, of which the United States took 1,637, valued at \$95,258 c.i.f. New York. The remainder was shipped to Europe, England taking the greater part.

Degree in Salesmanship Suggested.—Salesmanship is now being regarded as a profession in America, and a fund is being raised with the object of providing a university training in it. It is suggested that those who graduate after their course should receive the degree of M.S.M.-i.e., Master of Science in Merchandising.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registra. tion, see "The Chemist and Druggist Diary," 1921, p. 300.

(From "The Trade-marks Journal," December 29, 1920.)

"LUBRICUM"; for chemicals (2). By Langston-Jones and S. Smith, Ltd., Weston Street, Bow, London, E. 3. 409,113.

"BETULOL" under device of two leaves; for a liniment (3). By the Anglo-American Pharmaceutical Co., Ltd., 59 Dingwall Road, Croydon, Surrey. B 406,783.

"CURASOL"; for medicated socks (3). By R. E. Kemp, 19-20 Garlick Hill, London, E.C. 4. 407,581.

"SALVE," with "Sal-vay" underneath; for ointment (3). By W. D. Scoular, 30 Helcusburgh Drive, Jordanhill, Glasgow. 407,520.

"CAMOSAN"; for medicinal chemicals (3). By H. H. Cannon, 19 Market Place, Penzance, 409,091.

"ALL CLEAR!"; for medicinal chemicals (3). By Sunray Chemical Co., Ltd., 32a Old Market Place, Grimsby.

Chemical Co., Ltd., 324 Old Market Place, Grimsby. 409.311.

409,511.
WINCARNIS''; for beverages (42). By Coleman & Co.,
Ltd., Lower Westwick Street, Norwich. 408,138.

Ltd., Lower Westwick Street, Norwich. 408,100. (Associated.)

"Yo-Hana"; for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Goldstone Chemical Works, Hove, Sussex. 395,581.

"Saltarelle," "Artina," "Apres la Guerre," "Reine Fiamette," "Fliet Charmant," and "Mirage"; for perfumery, etc. (48). By Areco, Ltd., 11 Southampton, Row, London, W.C. 1. 397,916/920/921/922/924/926.

"San-Tox" for goods (48). By De Prec Chemical Co., 133 West Washington Street, Chicago, Ill., U.S.A., 399,186.

133 West Washington 399,186. Finella"; for face-powder (48). By C. J. Burchatt, 12 Drayton Road, Leytonstone, London, E. 11, 404,449. Presito"; for toilet cream (48). By H. J. Brashier, 54 Forest Hill Road, East Dulwich, London, S.E. 22,

(From "The Trade-marks Journal," January 5, 1921.)
"Sensima"; for photographic chemicals, etc. (1). By L. Gevaert & Co., 23 Septe Straat, Vieux-Dieux, Belgium. 408.884.

408,884.
PUDLO''; for chemicals (1). By Kerner-Greenwood & Co., Ltd., St. Ann's Offices, St. Anne's Street, King's Lynn, Norfolk. 407,964. (Associated.)
CESOL''; for veterinary chemicals (2). By E. Merck, Frankfurterstrasse 220, Darmstadt, Germany. 406,791.

Frankfurterstrasse 220, Darmstadt, Germany. 406,791. (Associated.)

"Pacfic," with device of trees ("Pacific" disclaimed); for medicinal chemicals (3). By W. B. Cartwright, Ltd., Mount Vernon Road, Rawdon, near Leeds. 406,456.

"Sprucylda"; for medicines (3). By P. Edgelow, Woodley, Tylers Cross, Roydon, Essex. 408,648.

"MULPLAST"; for a medicated plaster for skin affections (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria S'reet, E.C. 4. 408,704.

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Observations and Reflections. By Xrayser II.

Your Editorial Articles

on subjects other than merely topical are always interesting and illuminative, throwing light on the principles that should govern action as well as on the circumstances in which we have to act, and I do not remember any to which this remark more justly applies than the two which appeared last week, dealing respectively with the Powers of Registered Companies and the Scientific Control of New Remedies. For lucidity and readableness-two qualities not often found in legal disquisitions—the former would be hard to beat, while the other presents a statement of facts of the greatest practical importance in such a manner as to compel attention and stimulate thought. The question it most urgently raises is, How can the therapeutical value of any new remedy be really ascertained except by prolonged experiment and actual practice? That these should be directed and overlooked by a competent authority is self-evident, but it is equally certain that no merely laboratory research is sufficient for the purpose. Medicine is not, and it is safe to say never will be an exact science; it is not merely a chemical reaction that a remedy sets up in the body—at least in most cases—and in dealing with living tissues we can rarely or never be sure of a uniform result. We are constantly discovering new properties or discarding supposed old ones in substances that have been used in medicine for hundreds of years, and though there may be much less uncertainty in the action of synthetic drugs it takes time to ascertain all their possibilities.

The Dentists Bill

has already been so riddled with criticisms that few fresh points can be urged against it, but protests against its injustice to our craft cannot be too often or too vehemently repeated. Never before, I venture to say, in the history of such legislation has any reputable body of men been singled out for such gratuitous and injurious treatment. We are to be robbed of an employment we have pursued from time imme-morial, which has in many cases been forced on us by the very profession at whose instance we are now to be deprived of it, and in which we have equalled, if not excelled, many regular medical practitioners. I have known more "accidents" happen in extractions by doctors than by chemists, though much of my experience has lain in districts where chemists did a large part of the work. The "concession" that they may still do it where nobody else can be found for it is pure farce. I have never but once drawn a tooth in my life, but, in spite of my unexpected success on that occasion, I presume that some amount of practice is an advantage to an extractor, and I don't envy either the patient or the operator in cases of this kind. Personally, I should decline these crumbs from our master's table, however well able I might feel to deal with them. If we cannot be trusted under normal conditions, let us refuse to be made a convenience of.

The Compulsory Choice

between the two professions of pharmacy and dentistry is an even greater injustice, and is, as you say, entirely without precedent, but with regard to that I can add nothing to your own denunciation. There are, however, one or two other points in the Bill which, though they do not directly concern us, are worth our attention. Every director, manager, and practitioner of a corporate body carrying on the business of dentistry must be a registered dentist. This is exactly as it should be, but contrast with it the corporate bodies legally carrying on the business of pharmacy. Why this care for the one profession and this indifference with regard to the Noteworthy, too, is the fact that in this Bill

and as regards election to the governing board, for those registered "otherwise than by virtue of the provisions of this Act." As there will after five years be no clemistdentists this is of little or no importance to us, but it indicates the spirit that informs the Bill. A more glaring instance of class legislation than the Bill as a whole affords us it would be difficult to find.

The Amended Poison Schedule

contains two clauses, the faulty wording of which I must, at the risk of being thought pertinaciously hypercritical, again point out. In that relating to zinc chloride the words "provided that," etc., do not, grammatically construed, refer to the excepted preparations, but to zinc chloride itself and its liquid preparations in general, which was not the intention of read, "All Preparations or Admixtures not included in Part 1 of this Schedule which contain," etc. This latter amendment is not important, but the other is. Even legal English ought not to ignore grammar, though it may be allowed a little awkwardness.

The Blossoming Furze

exhibited by Mr. Hill at last month's meeting of the North British Branch need not have excited any surprise. It is indeed said to have been "in exceptionally full bloom," but I have often seem gorse in full bloom in December. My native county in the Midlands was famous for its gorse, and we had a saying, "When gorse is out of blossom kissing is out of fashion." Only last week I received a letter from a Scottish friend describing a walk she had just taken on the hills above Loch Lomond, in which she spoke of the furze (as she called it) making whole patches of country yellow. This, I dare say, is somewhat exceptional, but occasional sprays of gorse in full flower may be seen in favourable places in any month in the year. My friend, by the way, gave quite a long list of summer flowers she found in bloom. The common primrose, too, was mentioned, but this is often found in flower during the winter months. It is curious that Linnæus could not get gorso to grow in Sweden. It has been well called "the never-bloomless furze."

Arrow Poisons

vary in different countries, and one cannot but suspect that the stories told of them vary in veracity. A good deal of exaggeration appears to enter into some of them. What Mr. F. C. Cornell, in his interesting book, "The Glamour of Prospecting," for instance, says of the poisons used by the bushmen of Kalahari and the Orange River district is in some particulars hardly credible. is, however, what he was told by an old Bushman chief. The two poisons most in use are obtained respectively (he says) from the huge "baviaan" spider and "the viscid jnice of Candelabra euphorbia." They are prepared by the light of the moon, with certain mystic rites, and each of them is so deadly that the merest scratch will kill, yet without affecting the flesh of the animal slain. Arrows thus poisoned are not used in war. For that purpose the favourite poison is obtained "from certain portions of a putrefying corpse': it causes death from lockjaw "almost immediately." One suspects that the old warrior pulled a long bow.

Inoculation for Snake-bite

is another subject on which he was right voluble. His own chest was tattooed with tribal marks, and directly over his heart was a circle of little cuts showing where he had been inoculated with spake venom and so made immune from the effects of their bite; indeed he averred that "neither puff-adder, ringhals, cobra. nor night-adder would attempt to bite a man thus transformed." The inoculation is thus effected: a cobra, caught alive, is made to bite the patient over the region of the heart, while he is held by two men who administer the antidote in small doses, rubbing the sweat registration does not necessarily mean qualification. Many of the men registered under the Act will be examined men, but even these will not be "qualified"; that distinction is reserved, at least for eighteen years,

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Editorial Articles.

Oilseeds and By-products.

THE oilseed industry during the past three or four months has been seriously disorganised, and its difficulties have naturally been intensified by recent financial troubles at Hull, in which an important merchant firm with heavy liabilities is involved. The liquidation of considerable commitments, more or less affected between Hull and London, by the tribulations referred to, evidently proved a difficult task towards the close of December, when prices tumbled down at a sensational rate, both for linseed and linseed oil. The extreme lowest rates recorded were down to about 321. 10s. per ton for linseed oil at Hull and to 371, in London for spot delivery, which compares with 1241, and 1281, respectively, the highest points recorded in the past year. The situation. however, is extremely complicated, and there is not much hope of any revival of confidence in the present abnormally poor state of trade, although there is presumably room for an upward reaction should there arise an urgent demand to cover early requirements. The particulars which follow give a clear idea of the unprecedented extent to which prices have been swayed in the course of 1920:

La Plata linseed, Jan. 1 44 0 Cotton oil, crude, spot Hull, highest 120 0 March highest 54 0 Cotton oil, crude, spot Hull, lowest 35 Dec .. Lirseed oil, London lowest 18 10 spot, Jan. 1 108 March, Dec. 31 19 10 Bombay seed, March highest 128 0 highest 55 10 lowest 37 Dec., Dec. 31 23 0 lowest Hull, March. Cuttonseed, Egyptian, highest of year 33 0 highest 121 0 lowest 32 10 Dec. 31 40 0 Cottonseed, Egyptian,

lowest of year 13 10 It will be seen that the price of La Plata seed, which opened the year at about 44l., rose to 54l. towards the middle of March, this advance having been accelerated by a transient shortage of supplies, and a brisk demand from crushers, coupled by severely inflated freight rates. The price within the next five or six months fluctuated considerably, and averaged over that period: roughly, 36l, per ton, although a comparatively much higher figure was again reached in August. In December, however, Plate seed eventually collapsed to as low as 18!. 10s. per ton, the lowest figure touched. The average price of that description for the whole of 1920 was about 381. The London spot price of linseed oil opened in 1920 at about 1081., reached 1281. in March, at the peak of the boom, and it collapsed about two months later to 82l., but rallied in August to close on 100%. With the formidable break in the closing months of the year, under an extreme slackness of trade demand, the price declined to about 371., and rallied just towards the close of the year to 41l., with the Hull value at only 1l. less, although the lowest point recorded at the latter centre, at 321. 10s., a week or so previous, was several pounds a ton below London, chiefly on account of the financial disturbances. Cottonseed and cotton oil were, of course, much affected by the dibacle in the premier product, although the fluctuations in cottonseed were not anything like so violent as in linseed. The two extreme figures reached, within the year, in Egyptian cottonseed were 33l. and 13l. 10s. per ton, but the collapse in crude cotton oil at Hull was comparatively much greater, the price, after touching as high as 1201. per ton, having been as low as 351. before the close of the year. It is peculiar that the tremendous depression in the past year should have been accompanied by materially decreased supplies in the case of The total arrivals of linseed in this country for the year are estimated at, roughly, 350,000 tons, and those at Continental ports at close on 280,000 tons, making an aggregate of 630,000 tons, which, against the total supplies accounted for in 1919, would show a deficit of about 120,000 tons. In recent months home crushers' needs were obviously much curtailed under the industrial crisis and the consequent perpendicular fall in prices, whereby new demands were cut down to the narrowest possible dimensions, and, under a similar development in the manufacturing industries, the outlet for the byproducts has been largely held up. This easily accounts for the relatively low price ruling for linseed oil, which is the lowest seen since about the middle of 1916. The very high prices ruling in the first half of 1920 were more particularly due to the replenishment of home stocks and the exceptionally active export demand both for the Continent and the United States. The past year was certainly one of the most remarkable experienced in the oilseed industry in this country. Full advantage was

taken by big speculators of the irregular movement of supplies and temporary shortage in order to force up prices in the course of the first quarter of the year. Various important factors added strength to the upward movement. such as the dearth of carrying facilities and the consequent outrageous freight charges, as well as the aggressive attitude of shippers, while importers were up against serious difficulties in the matter of exchange rates throughout the year. The stringency of seed was for a number of months much aggravated by the heavy encroachments on American account on River Plate resources, due to previous poor crops in North America. while the American demand on this side for the oilproduct was likewise very brisk. With the advent of a good Indian linseed crop, of which a considerable surplus is still unshipped, the outlook for crushers, of course. underwent a rapid change, and as present prospects point to a continuation of ample supplies in the new season. with another large Argentine crop near at hand, there is obviously ample reason for the crushing industry to adhere to a hand-to-mouth policy. Admittedly the trade outlook still leaves much to be desired, as emphasised by the recent abnormal growth of unemployment, and until possibilities can be more accurately gauged as to a revival of trade activity it is rather premature to look for much improvement in seed oils, even if prices should be regarded as reasonably low enough for the time being. Current values, as a matter of fact, are still roughly double pre-war rates in most directions, and, with shipping tounages rather more difficult to employ than has been the case for some time past, there is yet room for a further cheapening in the cost of freightage. which would eventually make for a further adjustment in price to the consumer. Competition in shipping has become of a decidedly more international character, and homeward freights must inevitably experience further ease in the course of this year. Advices regarding the new Argentine crop are reported satisfactory, and the greater part of that crop will doubtless become available for Europe, while American competition, in drawing supplies from that quarter, is no longer so important a factor as it was in the past season. Normal conditions should be approximately restored within the current year, provided nothing serious goes amiss in regard to the Plate and Indian crops, and it is to be hoped that the unsettlement, which has been aggravated by the recent outbreak of financial difficulties, will soon be superseded by a renewal of confidence in more or less stabilised In regard to cottonseed, the last Egyptian markets. crop was a fair average one, and the greater part thereof, or close on 200,000 tons, came to this country, apart from not far short of 145,000 tons from India. total imports of cottonseed for the eleven months to the end of November amounted to 407,561 tons, compared with 375.760 tons and 553,258 tons respectively for the same period in 1919 and 1913.

Proprietary Medicines.

WE gave (C & D., December 4, 1920, p. 81) an outline of the changes which had been brought about in the Proprietary Medicines Bill, these having been a result of conferences between the Ministry of Health and the mannfacturers. We referred to the fact that a schedule of drugs is to be given, the presence of which is to be declared. This, we understand, is to be on the lines of a schedule attached to the Proprietary or Patent Medicine Act in force in Canada. The following is the schedule as

amended by a Canadian Order in Council of September 17,

Acetanilide and other coal-tar deriva-tives having (antifebrin) conite, its preparations and derivatives Aconite Apiol Arsenical preparations Atropine Barbitone (veronal) Belladonna, its prep tions and derivatives prepara-Benzol Cantharides, its pre-tions and derivatives prepara-Carbolic acid (phenol) -loral hydrate Chloretone Chloralamide Colchigum, its preparations and derivatives Conium (naculatum), preparations and derivatives Corrosive sublimate chloride of mercury) Cotton root Croton oil Digitalis, its preparations
and derivatives Ergot and its preparations Ergotine Eucaine Gelsemium The hellebores (Helleborus Viger and Album and Veratrum Viride) Heroin (for external use

Hyoscyamus, tions and derivatives Hyoscyamine and its preparations. Indian hemp (Cannabis Indica), its preparations (Cannabis and derivatives Lobelia, its preparations and acrivatives Morphine (external use only) Methylene blue Nux vomica, its preparations and derivatives Novocaine Oil of cedar Opium, its preparations and derivatives (external use only) Pennyroyal p-acetphene-Phenacetin tedin) Phenazone (antipyrine) Prussic acid Potassium chlorate Savin Strychnine and its preparations Stramonium, its tions and derivatives Strophanthus, its prepara-tions and derivatives Sulphonal Tansv Trional antimony Tartrate (tartar emetic) Veratrine

Our object in giving the Canadian schedule in full is to call attention to the unsuitability of such a list of drugs for British conditions. There are, it will be seen, many of the scheduled poisons included in the Poisons and Pharmacy Act, but what the meaning attached to "derivative" is in Canada we do not know. What, for example, is a derivative of cantharides? Does it refer to the active principle? If so, what is the difference between a preparation and a derivative of conium? We understand, however, from one source that it is intended to add only the articles that are not already included in the British Poison Schedule. In that case the remaining drugs are an extraordinarily motley crew. The inclusion of benzol, cotton root, methylene blue, oil of cedar, potassium chlorate, santonin, and tansy is inexplicable to British pharmacists and should be vigorously opposed. The translation into a British Act of Parliament of a list of drugs, which, however appropriate these may be in Canada, are entirely foreign to conditions in the United Kingdom, is riliculous. Unfortunately, the outlook for chemists is far from promising. The Proprietary Medicines Bill promises seriously to whittle away the chemists' privileges, and there exists no independent body that can fight for these rights. The manufacturers of proprietary medicines have, by combination, obtained valuable modifications in the Bill, but the chemists' position in respect to the definition of proprietary medicines remains as precarious as ever. For example, unless some alteration is made in the definition in the Bill of proprietary medicines, the rights of chemists under the Medicine Stamp Acts to sell "known, admitted, and approved" remedies, pure drugs, and salines, unstamped, will be infringed. Until the Bill is printed, however, which will not be until it is reintroduced in February, it is impossible to tell what other chemists' rights are to be sacrificed, but we fear the worst.

Society of Chemical Industry,

AT the meeting of the London Section of the Society of Chemical Industry, held on January 3, in the rooms of the Chemical Society, Burlington House, Mr. Julian L. Baker being in the chair, a paper was presented on behalf of the author, Mr. G. H. Thurston, and read by Lieutenant Colonel Cecil A. Grenfell, describing The Smith Continuous System of Carbonisation. This is a process for treating coal in such a way as to deprive it of all its volatile constituents, in order to utilise the residue for the manufacture of a free-burning, smokeless fuel, in the shape of briquettes. At present two plants are in operation in the United States, one with a daily output of 100 tons, and the other of 500 tons, of these briquettes, known under the name of "carbocoal." All kinds of American, and even English, coal have been tried, and the best results have been obtained when using a non-coking variety of coal. The process is using a non-coking variety of coal. The process is based on a combination of carbonisation at low and at high temperature. The coal is first carbonised in a specially constructed retort, made of carborundum, at a temperature of 480°C, which yields a friable mass; the latter is again submitted to a renewed carbonisation in another retort, at a temperature of about 1,090° C. The resulting product is then mixed with 10 to 15 per cent of pitch, and formed into briquettes. The process is the result of five years' experimental work, involving an outlay of \$3,000,000, and was undertaken with the active co-operation of the United States' Government. In the process all the various constituents of coal, such as oil, ammonium sulphate, gases, etc., are recovered.

Dr. Irvine Masson (in collaboration with Mr. T. Lawson McEwan) read a paper dealing with the Recovery of Solvent Vapours from Air, in which he described the experimental work undertaken to recover ether and alcohol by the use of cresol, and of sulphuric acid, in the manufacture of cordite at Gretna. The question of recovering the ether and alcohol used as solvents in the manufacture of this propellant explosive was of the greatest importance during the war. The author described in detail the theoretical considerations involved, and the formula elaborated. It was established that 2 tons of air per hour contained about 5 per cent, by volume of ether, and the problem of using cresol to absorb the mixture of ether and alcohol was complicated by the fact that the vapour pressure of ether is greater than that of alcohol. The process consisted in causing the vapour containing the ether and alcohol to pass through a scries of scrubbing towers, where the vapours were absorbed by the cresol. Dr. Masson explained the

formula found:

Grams of ether dissolved per Kg. of cresol Grams of residual ether unabsorbed per cubic metre

$$\frac{1.08}{1} = k.$$

As a practical example, the recovery of 90 per cent. of ether would require four stages of absorption in the towers, requiring the use of 1,500 grams of cresol per cubic metre of air treated. But the heat developed by the liquefaction of ether in cresol, amounting to 60 calories per kilogram, had to be taken into account, representing a rise in temperature of 15° C, at the bottom of the tower. By using six stages of scrubbing it was possible to recover 95 per cent. of the ether present. The next step was to recover the ether from the cresol. was effected by causing the cresol containing the absorbed ether to pass over heated coils, to drive out the ether for which a temperature of 160° C. was required. The cresol was then cooled and used again, as a continuent process, to absorb ether once more. The author then dealt with the use of sulphuric acid, in the place of cresol, for the recovery of ether and alcohol. The process is essentially the same, but requires the use of sulphuric acid of a minimum concentration of 75 per cent. in order effectively to absorb the ether.

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Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on January 5. All the members were present, with the exception of Mr. T. Guthrie and Mr. J. R. Young, and the chair was occupied by the President (Mr. E. T. Neathercoat). The minutes of the meeting held on December 1 were not read, having evidently been confirmed at a private meeting held the previous evening.

APOLOGIES FOR ABSENCE.

The President intimated the receipt of apologies for absence from Mr. Guthrie and Mr. Young, in each instance giving indisposition as the cause.

NEW YEAR FELICITATIONS.

The President, remarking that this was the first meeting in the present year, tendered to the members of the Council the season's greeting. He added that he was sure it was also their desire that he should, in their name, extend to Sir William Glyn-Jones and the other officers and staff of the Society the same felicitations, as well as to the representatives of the pharmaceutical Press

who attended the Conncil-meetings. (Hear, hear.)
Mr. Deakin suggested that the Council's good wishes should be extended to the two absent members. In the case of Mr. Young, he suggested that they should be embodied in a resolution to be recorded in the minutes, with an expression of the hope of the Council for his

The PRESIDENT said he would undertake, in the name of the Council, to write to Mr. Young, conveying to him their good wishes.

REORGANISATION.

The President stated that, arising from the memorandum which he submitted to the Council at the meeting held the previous evening, the following resolutions had been discussed:

(1) That as and from the completion of the present Central Checking Bureau contracts, the Society shall cease to be responsible for the Central Checking Bureau, and shall transfer the organisation and staff to the Retail Pharmacists' Union.

Pharmacists' Union.

(2) That at the conclusion of the term of the present contracts, the balance standing to the credit of the L.A.E. accounts be placed at the disposal of the Pharmaceutical Committees with whom the contracts have been made.

(3) That the L.A.E., acting as part of the Society's organisation, should, until the date of the transfer of the work to the Retail Pharmacists' Union, continue to carry on as hitherto the functions relating to National Health Insurance dispensing. Insurance dispensing.

(4) That Mr. Mallinson's resignation as assistant secretary of the Pharmaceutical Society be accepted, to take effect as and from January 5, 1921.

It was decided, the President went on to say, that, to retain Mr. Mallinson's services as superintendent of the Checking Bureau until the Bureau is transferred to the Retail Pharmacists' Union, and that meantime he has been given permission to undertake the secretaryship of the Retail Pharmacists' Union and the Chemists' Defence Association. He (the President) could not read the resolution dealing with Mr. Mallinson's resignation without making just a brief observation or two. That was not the time to refer to that gentleman's services to pharmacy or to the Society. The proper occasion would be when he gave up the work of the Society in connection with the Checking Bureau two or three months hence. At the same time, he could not allow the fourth resolution to be read, and, as he expected it would be. adopted without expressing in the name of the Council and of their colleagues, regret for the necessity which had arisen for Mr. Mallinson severing his connection with the Society as assistant secretary. (Hear, hear.) While expressing that regret, he also desired to take the opportunity of saying how congenial to the whole

of the Council had been Mr. Mallinson's association with the Society's work. (Hear, hear.) He (the President) had personally been brought into very close touch with Mr. Mallinson, who, it so happened, started his connection with the Society during the period he himself had been acting as chairman of the Local Associations Executive. He had followed Mr. Mallinson's work all the way through, and hoped a little later on in the year to have the opportunity of paying a tribute to him for the work he had done while he had occupied the position of assistant secretary to the Society. (Applause.) The President concluded by intimating that the resolutions would be communicated to the pharmaceutical Press.

ELECTIONS AND RESTORATIONS.

Before proceeding to deal with applications for election to membership, the Council resolved itself into Committee to consider an objection to the admission of certain persons raised by Mr. Wolff. Subsequently, in open Council, it was agreed that 116 persons, having tendered their subscriptions, be elected members of the Society; that seventy-three be elected student-associates; and that six be restored to membership of the Society.

The President, for the information of the Council, stated that of the seventy-three persons who had applied for election as student-associates, twenty-four had, in addition to their usual subscription, paid their subscription for the "Journal." (Applause.)

It was reported by the registrar that since the previous meeting sixty-nine persons had been registered as apprentices or students.

Correspondence.

The secretary intimated the receipt of a letter from the Bath Pharmaceutical Association conveying a resolution passed by that body expressing the appreciation of its members of the action taken by the Council in bringing to the notice of the Privy Council and other bodies the importance of separating the function of dispensing from that of prescribing, following the evidence given in the

Greenwood case (C. d. D., II., 1920, p. 1596).

A letter was submitted from Sir Almeric FitzRoy, Secretary to the Privy Council, enclosing an Order in Council relative to the amendment of the Poison Schedule

of the Poisons and Pharmacy Act, 1908.

A communication received from the secretary of the Pharmaceutical Society of Ireland expressed surprise that the Council of the Society of Great Britain do not now accept apprenticeship with a pharmaceutical chemist in Ireland as one of the qualifications necessary for admission to the examinations of the Society. This, it was pointed out, was a complete reversal of former practice. The Council of the Society of Ireland desired to be informed whether, and when, the change was made. As the Society of Ireland accepted the service with British chemists, they naturally expected reciprocity.

The Secretary said the explanation was that, prior to the change in the regulations, the British Society accepted a certificate signed by an Irish pharmacist or doctor, or by a pharmacist in the Colonies, to the effect that the person concerned had been engaged for three years in dispensing medicines. Such a certificate, however, was not now acceptable under the new regulations under which, in lieu of the one for three years, it was necessary that there should be a certificate to the effect that the person who proposed to sit for the qualifying examinations had been engaged for four thousand hours in a pharmacy. It had so happened that in the case of a particular man the Council had been unable to accept the evidence of his having served an apprenticeship in the business of a pharmacist in Ireland, and, added the Secretary, the letter he had read was the result.

The President suggested that the best course to follow would be to refer the letter from the Irish Society to the School Committee, and, in the meantime, to ask the secretary to make full investigations regarding the question of apprenticeship in Ireland, so that the Council would be in a position to deal fully with the point raised.

The suggestion of the President was adopted without

FINANCE COMMITTEE.

The monthly financial statement is summarised as follows: Receipts since last meeting, including a balance of 87l. 18s. 7d. brought forward, amounted to 7,197l. 0s. 5d., comprising the following items: rent, 230l. 10s.; restoration- and registration-fees, 152l. 5s.; penalties and costs, 63l. 1s. 4d.; "Journal" and publications, 1,008l. 5s. 8d.; Local Associations Executive, 600l.; subscriptions, 55l. 13s.; school-fees, 997l. 10s.; examination-fees, 1,861l. 4s.; dividends, 86l. 19s. 1d.: deposit and interest, 2,024l. 18s. 7d.; sale of registers, etc., 28l. 15s. 2dl. From this total were deducted payments ordered at the last meeting, amounting to 5,093l. 14s. 9d., leaving a balance of 2,103l. 5s. 8d. The other balances were: Benevolent Fund (current account), 1,057l. 1s. 2d.; Benevolent Fund (donation account), 670l. 4s. 3d.; War Auxiliary Benevolent Fund, 979l. 4s. 3d.; Orphan Fund, 290l. 15s. 2d. The report recommended that accounts amounting to 4,226l. 7s. 11d. should be paid, and that the action of the secretary in making payments on account of current expenses amounting to 933l. 3s. 9d. be approved.

The TREASURER, in moving the adoption of the report, reminded the Council that on the occasion of the previous meeting, when the finances of the Society were discussed, he, on behalf of the Finance Committee, promised that they would budget for the approaching financial the they would budget for the approaching infall that year by obtaining something resembling a statement of the estimated income and expenditure of the Society under certain headings. He personally travelled to London during the Christmas week and caw the secretary. together with the assistant-secretary (Mr. Chater), both of whom did their best to satisfy his demand with regard to details. He had found it impossible, however, to get the statement ready for that meeting, but he promised that at the February meeting they should have an estimate of the income and expenditure for 1921. He had had hopes that as a result of his observations at the last meeting he had succeeded in arousing some little interest in the finances of the Society, but at the meeting of the Finance Committee held the previous day, he regretted to say, Mr. Lloyd and himself were the only members present to transact the business. It was quite true that for a portion of the time they had the help of the President and Vice-President; but the major part of the work had to be transacted by one member of the Committee and himself. (A Voice: "Shame!") This had been a little disappointing to him, especially as he had thought he had created some amount of interest in the financial position of the Society.

Mr. Melhuish expressed himself as especially glad that the treasurer was still taking that keen interest in the matter of finance which he was sure every member of the Council, whether he attended the meetings of the Committee or not, also took. One point arose out of the treasurer's observations to which he desired to call attention: it seemed to him the treasurer desired to get the required information particularly from the officials at the office. (Hear, hear.) That information must, of course, of necessity partly come from the office, but, on the other hand, it seemed to him that it must come mainly from the various committees which might be regarded as the spending ones—such as the "Journal" Committee, for instance.

Mr. Rowsell suggested that the right and most effective way to deal with the whole of the financial problem was to have a committee comprising the chairman of the various committees concerned with the spending closely to revise every item of expenditure and consult as to how economies could be effected, submitting afterwards their conclusions embodied in a report to the Council.

Mr. Wolff thought that an official should be present at each meeting held to consider the matter, who would act as financial secretary and afford information.

Mr. Campkin, referring to what he called the "deprecatory remarks" of the treasurer regarding the absence of members from the meeting of the Committee held the previous evening, said he had reason to apologise for not attending, although really he need not do so, because no one could accuse him at any time of neglecting the business of the Pharmaceutical Society. The fact was that he was occupying the chair as a magistrate the previous day in the consideration of an important legal case. He quite followed the remarks of Mr. Melhuish, and, as a Committee, they were quite prepared to present a budget in due course. He submitted that it was no part of their business as members of the Society to get those figures except from the official sources. If they called for a return from the spending departments, he took it that by the time the February meeting of the Council was held the figures would be forthcoming for the Council was held the figures would be forthcoming for the Council come to some agreement or submit some statement to the Council regarding the probable income and expenditure for the coming year. He was only wondering as to when that year commenced. He supposed it was about April, and that they did not commence the financial year on January 1 exactly. (Cries of 'Yes.')

The PRESIDENT: The financial year does.

Mr. CAMPKIN: Then it is too late. We could have done it at the last meeting-that is to say, consider and present a report. At the same time, I hope that when we have the reports from the various departments we shall be able to meet and submit such estimates as are suggested. But we members of the Finance Committee are engaged on other committees as well, and it is very difficult for us to go through lengthy investigations and draw up estimates at a Tuesday meeting. I am not, of course, advocating a special meeting for the purpose, but I would point out that we cannot apply ourselves exclusively to the details of the Finance Committee without reference to the other committees of which we happen also to be members. Mr. Campkin went on to say that he was a member of the "Journal" Committee, which met an hour or two after the Finance Committee, and added: "Some of the members of the Finance Committee are such gluttons for work that they are on six or seven other committees, and it is difficult to divide their attendance at each and keep the work in continuity. feels his responsibility. We shall make the presentation of the budget later on, but we must have the information and we hope we shall have something to submit to you at the next meeting.

Mr. Skinner remarked that the "Journal" Committee had taken seriously to heart what the treasurer said at the last meeting of the Council, and as chairman of that Committee he certainly did hope that it would be able to present next month certain facts and figures which would enable the Finance Committee to submit an estimate of the income and expenditure. There were a lot of figures to go through, and it was necessary that these should be carefully considered in order to enable them to give some definite estimate that would meet

the conditions.

The PRESIDENT thought that if, when the report of the Finance Committee came before the Council, they were not satisfied with it, Mr. Rowsell's suggestion would be an excellent way of dealing with the whole matter.

Mr. Parry remarked that what puzzled him was the statement in the accounts relative to the expenses in connection with the "Journal." The statement showed the receipts to have amounted to 1,008l., and the expenses to have been 1,574l.

Mr. Melhuish pointed out that the Council were not at the moment sitting in Committee, and were not discussing the costs of the "Journal."

Mr. Parry said he only wanted to know the position. The statement submitted was not conclusive, because there was nothing in it to guide them as to what the receipts and expenses covered.

The PRESIDENT stated that the question of the "Journal" accounts would be dealt with by the Committee, and the two reports would come before the Council for consideration part mouth

cil for consideration next month.

Mr. Parry explained that his desire was to point out the difficulty members experienced in understanding exactly what the figures meant.

The President tendered his own congratulations and those of the Council to Mr. Parry on the success of his

wife in having passed her Qualifying examination. (Hear, hear.) The occasion was, he believed, the first on which the wife of a pharmacist had passed the examination while he himself was a member of the Council of the Society, and he could not allow it to pass with-

out offering Mr. Parry his congratulations. (Applause.)
The Treasurer explained, in reply to Mr. Campkin,
that the only remark he had made was that he was a little disappointed with the meeting of the Finance Committee held the previous day. He did not make any comment on, or complaint of, the absence of any particular member. With regard to his desire for information regarding income and expenditure, he proceeded to London during the Christmas week with a certain amount of independence, and told the officials that there were details which he must receive. He hoped to receive the help of the Dean in preparing an estimate of the income and expenditure in connection with the School, and also from Mr. Skinner with regard to the "Journal." The Finance Committee would do their best to submit proper estimates to the Council at next meeting.

The report of the Finance Committee was then adopted.

LOCAL ASSOCIATIONS EXECUTIVE.

The report of the Local Associations Executive Committee recommended that Mr. Mallinson be paid a bonus of 150% in respect of the year 1920. It stated that the Committee had considered a report of the findings of the Conference held on December 8 to consider organisation, and recommended: "That the Council's attention be drawn to the approval by the Conference of the suggestion that the Central N.H.I. organisation be transferred to the new Union, and that the Council be recommended to take the necessary steps to carry out the transfer." With regard to the resolution of the Conference concerning Insurance terms for 1921, the Committee recommended: (1) "That the resolution of the Conference that the negotiations with the Ministry of Health be left in the hands of the L.A.E. Committee be approved," and (2) "That the secretary be instructed to obtain a reply from the Ministry before the next meeting of the Committee." The secretary reported receipt of letters from the County of Essex Association and the Proprietary Articles Trade Association in regard to abuses in connection with the welfare centres so far as the supply of foods was concerned, and it was recommended: "That the secretary be instructed to issue a circular dealing with this matter, asking for information and evidence regarding sales to persons who were not in necessitous circumstances." The secretary reported receipt of a reply to a letter he had sent to the P.A.T.A. on the question of joint action in regard to railway rates on small parcels, and the Committee recommended: "That the suggestion of the P.A.T.A. that this Committee should co-operate with them in briefing a barrister to appear before the Commission on their behalf be adopted.

Mr. Wolff inquired how negotiations with the Ministry of Health regarding Insurance terms for 1921 were

progressing.

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Mr. DEAKIN replied that no information from the Ministry had reached the Committee, unless it had been received that morning. Negotiations had taken place with the view of inducing the Ministry to accelerate matters. The Committee were anxious to know the exact position of pharmacists, as the answer of the Ministry, from their point of view, was quite unsatisfactory, apart altogether from the justice of the claim they

but before the Ministry. (Hear, hear.)

Mr. Wolff, referring to the recommendation of the Committee regarding the abuses in connection with welfare centres, said he should like to have an opportunity of seeing the proposed circular before it was issued in order that he should not be in the position of not knowing

what was suggested or proposed.

Mr. Deakin explained that the position of the Committee in regard to the matter was that it came before them from a very important Association in the country, and they were now trying to get evidence from various parts of the country as to the persons who, not being in necessitous circumstances, were receiving boons and benefits at the disposal of the committees in charge of certain welfare centres. The whole subject was being carefully considered by the Committee, and he assured Mr. Wolff that nothing would be done prejudicial to his personal position in any action the Committee might take. No particular articles were mentioned, but Mr. Wolff was perfectly right in certain of his conclusions. At the moment, the opinion of the Council was that full inquiries should be made and facts should be collected from various parts of the country, because they believed that consciously or unconsciously an injustice was being perpetrated upon the individual chemists of the country.

The President suggested that Mr. Wolff should see Mr. Deakin, the chairman of the Local Associations Exe-

cutive, with regard to his request.

MrWolff asked what authority would deal with the complaint.

Mr. Deakin replied that the Ministry of Health would be the one to which communications would be sent.

Mr. Hagon expressed himself as pleased that the matter had been taken up by the L.A.E., as the abuses of which complaint was made were spreading throughout the country. At every meeting held in his own part of the

country the matter was being brought up.

Mr. PARRY said the question which arose in his mind as a ratepayer, and also as a member of the Council, was what right the Corporation, say, of Liverpool, or the Ministry of Health had to spend moncy which he paid in rates and taxes on such an abuse as that of supplying a proprietary to his own customers in competition with his business and at a price below that at which he could buy it from the manufacturer. That was a point that would have to be considered, and one to which every member of the Council and every official of the local Associations should direct the attention of the local authority. What right, he asked, had the committee in charge of any welfare centre to use any proprietary article (he did not care what it was-milk powder or anything else) in preference to another?

Mr. HINES though the Committee ought to emphasise the desirability of pharmacists being represented on the committees having the management of welfare centres. If this could be secured it would be a great advantage to

all concerned.

Mr. Deakin stated that if Mr. Wolff saw the secretary or himself the point he had raised could be talked over. The report of the Committee was adopted.

BENEVOLENT FUND.

The report of this Committee stated that certain applications for assistance had been considered and dealt with. In some instances grants were recommended, and in others intimation was made that the Committee was powerless to assist.

Miss Buchanan, in moving the adoption of the report, intimated that sums amounting in the aggregate to nearly 40%, had been received as the result of whist-drives. Donations received included the following: R. W. West (whist-drive), 12l. 18s. 6d.; W. Browne, Finchley Road, N.W. (collecting-box), 1l. 1s.; 17 Bloomsbury Square (counter collecting-box), 3s. 8d.; East Anglia Federation of Phaymagaista (collecting-box), 3s. vactions of Phaymagaista (collecting-box), 1s. 10200 of Pharmacists (collected at meetings during 1920), 97. 15s. 2d.; National Association of Women Pharmacists, London Branch (whist-drive), 7l. 7s.; Lancaster and District Pharmacists' Association (whist-drive), 2l. 2s.; Ealing and District Pharmacists' Association (whist-drive), 171. 3s. Miss Buchanan added that she had received an offer from a sympathiser, who was prepared to deliver lectures and to devote all proceeds from them to the Fund.

Mr. Skinner asked for some guidance from Miss Buchanan as to what was to be done in view of a request he had received to call a meeting of ladies in the North of London.

Miss Buchanan expressed her desire to help Mr. Skinner

in every way.

Mr. Parry said he was sure every member of the Council appreciated the kindly action of the proprietors of the Chemists' Exhibition in affording them such excellent facilities for doing something really tangible in aid of the Benevolent Fund. The stand they were offered was worth a lot of money, and it would be a simple act

of grace if the Council tendered to the proprietors of the Chemists' Exhibition their sincere thanks for their generosity. He moved accordingly.

Miss Buchanan seconded the proposition, which was

unanimously adopted.

Mr. Rowsell thought a Central Committee should be formed in connection with the effort to be made in June.

The President replied that a Central Committee was

The President replied that a Central Committee win course of formation.

The report was adopted.

LIBRARY COMMITTEE.

The report of this Committee stated that further applications for the recognition of institutions for Part I. of the Qualifying examination had been received, and that it had been agreed to recognise the following institutions for the purposes indicated:

For the purposes indicated:

For the purposes of Chemistry, Botany, and Physics:

Bristol, Merchant Venturers' Technical College; Plymouth, Technical School; Reading, University College.

For the purposes of Chemistry and Physics: Darlington,

Technical College; Oxford, City Technical School; Truro,

Central Technical Schools.

A letter was received from the principal of the Technical College, Cardiff, stating that at the last meeting of the pharmaceutical advisory committee of the College it was decided to inform the Society that, in their opinion, the syllabus of the Qualifying examination is too long and comprehensive to be adequately covered in one session, and to suggest that a small education committee be set up by the Society to consider the matter. It was recom-mended: "That a conference of the responsible heads of the institutions approved for Part II. of the Qualifying examination be held before the close of the session 1920-21." It was reported that the examinations under the preparatory course and prize scheme were held simultaneously at all school centres in the country on October 14, and that a résumé of the result was as follows: Entries under the scheme, 1,048; sat at examination, 866; not eligible, 2. Of the papers returned 636 failed to obtain 50 per cent. of the total marks, while of these 284 failed to obtain 25 per cent. of the total marks It was decided that the names of the hundred students who obtained the righest marks, and were therefore the prize-winners, should be published. The question of continuing the preparatory course in 1921 was considered, and it was decided to make the following recommendation:

That the preparatory course be open to those ex-Service students who will be commencing their college course in October 1921, that on payment of an entrancefee of 5s. the text-books be supplied, and that entries be received within one month from the date on which the notice is issued to the candidate. Further, that an examination based on the text-books be conducted at each of the approved schools in October 1921, and that a sum not exceeding 100*l*, be divided as prizes among those who reach a certain standard in the examination.

With reference to the suggestion by the Western Pharmacists' Association that the Council should consider a proposal for the institution of a Pharmacy Club in London for members of the Society, the Committee recommended:

That the Western Pharmacists' Association be informed that the Council, having given consideration to the proposal for the institution of a Pharmacy Club on the lines set out in the letter from the Association, are of opinion that the present time is not opportune for carrying out the sugggestion, but that the Council will bear in mind the matter and reconsider it when a suitable opportunity arises.

Mr. Hagon said he was specially glad to note the recommendation that a conference should be held of the responsible heads of the educational institutions. This, however, was not quite what he understood the principal of the Cardiff College asked for. What that gentleman felt was that a small committee should be appointed for the consideration of the subject rather than a conference of all the heads. He had very strong reasons for saying that the present syllabus and the way of carrying it out were not quite satisfactory, because the teachers had not the

time, in the period allowed, to impart to the students the information necessary. Another point he desired to bring to the notice of the Council was that, when the examination was divided into two parts, the intention of the Council was that Part 1. should be taken during the period of apprenticeship, so that caudidates might qualify for examination at the end of that period. He suggested that inquiry should be made at the technical schools in order to ascertain how far they were carrying out the programme that was in the mind of the Council.

Mr. White, replying to Mr. Hagon, said that he hoped the proposed committee would be appointed in February, when they would have had experience of the present session in addition to the last one. He did not regard the conditions described by Mr. Hagon as typical of what would follow in future years. In connection with the preparatory examination and prize scheme, he proposed a resolution embodying the thanks of the Council to the examiners and Committee for their valuable co-operation.

Mr. Melhuish seconded.

Mr. White mentioned, with regard to the proposal to form a Pharmacy Club, that the Society is reorganising the whole of its affairs, and whether all the premises would be used, or whether accommodation could be afforded for the Club was uncertain. Moreover, such a scheme would involve the expenditure of money.

The report of the Committee was adopted.

This was all the public business.

Associations' Winter Session.

Dublin.—The Dublin Retail Drug Association held a committee meeting on December 29, Mr. R. E. Campbell (Vice-President) in the chair. The following were also present: Messrs. R. White, B. R. Allshire, Robert Mellon, G. A. McLean Lee, John Smith, W. F. Ellis, D. M. Watson, and Robert J. Kidney, secretary. Correspondence from the following was received and dealt with: Glaxo, Ltd., Londou, and the Ulster Retail Drug Trade Association. The secretary reported that a complaint had been made in respect of undercutting in the price of Glaxo by a city grocery firm, and that the proprietors had taken up the matter with the Proprietary Articles Trade Association.

Hull.—The Hull Pharmacists' Association held the annual meeting on January 4, under the chairmanship of the retiring President, Mr. Spilmau. The following officers for the ensuing year were elected: President, Mr. T. H. Newton; Fice-President, Mr. V. Iddon; Treasurer, Mr. A. Howe; Secretary, Mr. W. G. Bennett. The President afterwards gave an outline of his ideas for the coming meetings.

Sheffield.—At a meeting of the Sheffield Pharmaceutical Students' Association, held on December 20, appreciation was expressed at the gift of a bookcase from Mr. E. Preston, for the library in connection with the Association. Mr. Preston has also offered to apprentices and assistants an opportunity of preparing or seeing prepared many of the Pharmacopeia galenicals. A start is to be made ou January 13 with the production of spt. ammon. aromat. at the Wentworth Café.

THE AFRICAN OIL PALM.—An article on the African oil palm, dealing with all aspects of the subject, appears in the current number of the Bulletin of the Imperial Institute. It is shown that an oil-palm plantation may generally be expected to yield larger profits than those obtainable from coconuts.

BISMUTH PRODUCTION.—The Imperial Mineral Resources Bureau have issued a digest of statistical and technical information relative to the production and consumption of bismuth. As is well known, the production and the market price of the metal have been strictly controlled for many years. Prior to the war the price was 7s. 6d., on August 18, 1914, it rose to 10s., on March 8, 1916, to 11s., and on January 28, 1918, to 12s. 6d. per lb., at which figure it has since stood.

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Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres.

Herefordshire.—At the December meeting of the Insurance Committee several medical members complained of the inability of chemists to supply, without delay, surgical splints of an expensive type. Mr. George Donaldson (Hereford), representing the Pharmaceutical Association, said that payment being limited to 6d., and the article not being chargeable until supplied, a provincial chemist had no prospect of being paid for a bigger splint. The Clerk to the Committee said payment of the more expensive splint was allowed on the scale of quotation for such in the current wholesale price-lists. He admitted that the stocking of costly splints presented a difficulty, since the risk of their remaining unsold would be entirely the chemists'. A discussion led to the suggestion that in each of the leading towns of the county one chemist might be induced to create, at his shop, a depôt from which the more expensive splints could be had by any chemist or practitioner on application. The suggestion was sent to the Panel Committee for consideration.

Portsmouth.—At a meeting of the Insurance Committee, on December 30, it was reported that the East Sussex Insurance Committee had given notice of their intention to determine, from December 1, 1921, the agreement constituting the Joint Committee for Pricing Prescriptions for the South-Eastern Division. As the result of a letter from the Joint Pricing Committee querying whether a prescription marked "Urgent" and not endorsed by the chemist stating the hour at which it was dispensed should be treated as an ordinary prescription, the Committee replied in the affirmative, and the clerk was directed to remind chemists of the need of endorsing urgent prescriptions as indicated. The report on prescriptions for October was as follows: Number of scripts, 12,111; average cost, 10,93d.; as compared with 10,954 scripts at an average cost of 8.84d. in the same month of the previous year.

Sheffield.—A meeting of the Insurance Committee was held recently at which it was stated that the cost of the prescription books was reported to have increased from 2½d. each to 8d., plus 25 per cent. It is estimated that the contribution to the North-East Pricing Bureau will total 650l. for 1921. The estimated balance of the Administration fund on December 31 is 2,934l. 5s. 7d. Two non-pharmacists have been appointed representatives of the Joint Committee of the North-East Midland Prescription-pricing Bureau. The Committee refused several applications from doctors to alter their surgery hours. The new envelope medical record has been put into use. Doctors are to be paid for postage incurred. Chemists accounts for the month amount to 1,364l. 17s. 5d.

Surrey.—A meeting of the Insurance Committee was held on December 29, at which the reports of the various Sub-Committees were submitted. The Medical Benefit Sub-Committee reported that four chemists had joined the panel and four had resigned. The Sub-Committee received a return from the Joint Committee on Pricing Prescriptions of the urgent fees for prescriptions written by doctors during the quarter ended September 30. The Finance and General Purposes Sub-Committee reported that the County Pharmaceutical Committee expressed the opinion that it is not advisable to discontinue monthly advances to chemists, but asked for information regarding the saving of work the suggested procedure would involve. It was decided that "urgent" prescriptions, forwarded to the Pricing Committee without the time of dispensing inserted, will be treated as an ordinary prescription. The sum of 1751. was recommended to be paid to the Joint Committee on Pricing Prescriptions early in January as the first quarterly instalment.

worcester.—At a meeting of the Insurance Committee, held on December 22, a recommendation by the Finance and General Purposes Sub-Committee, that the list of

stock mixtures submitted by the Panel Committee be not approved, was agreed to. It was considered that the use of stock mixtures would be detrimental to insured persons.

SCOTLAND,

Fife County Insurance Committee.

Emergency Drugs.—The following list of emergency drugs and appliances has been approved by the Scottish Board of Health as the maximum supply per month during the present year:

Two doz. assorted white open-wove bandages and \(\frac{1}{4} \) dozpomette bandages; one roll gauze; 1 lb. boric lint; 1 lb. cotton-wool; \(\frac{1}{2} \) yd. oiled silk or G.P. tissue; one spool rubber adhesive plaster, 1 in, by 10 yd.; 4 oz. lysel or carbolic acid; 16 oz. eusol; 4 oz. tinct. iod. mit.; 2 oz. ether meth.; 6 oz. liq. hyd. peroxide (10 vols.); one tube hypodermic tabs. morph, sulph., gr. \(\frac{1}{4} \); one tube hypodermic tabs. strych, sulph., gr.\(\frac{1}{6} \) oz.

Aspirin Tablets.

The use of gum acacia as the granulating agent in the manufacture of tablets of insoluble drugs, as ordered in the formula of the British Pharmaceutical Codex for aspirin tablets, is not to be recommended, since it retards disintegration and solution and also renders necessary the use of tale as a lubricant. Starch mucilage is an efficient granulating agent for aspirin tablets, ensures rapid disintegration, and has the added advantage of requiring no lubricant. The process is: Mix $\frac{1}{4}$ oz. of starch with $1\frac{1}{2}$ oz. of water, and bring to the boil to make a translucent paste; cool, triturate well with 5 oz. of finely-powdered aspirin, rub through a No. 16 sieve, and dry thoroughly. The granules should be spread out in a very thin layer, and will then rapidly dry on exposure to a very gentle heat (30° to 40°). To the dry granules add \(\frac{1}{4} \) oz. of dried potato starch and make into tablets, avoiding excessive pressure. Tablets made by the above method weigh 5½ grains, rapidly fall to powder in water at the temperature of the body, and contain only slight traces of free salicylic acid. Contact with water always causes some hydrolysis of aspirin, and solutions of wax and fat have been suggested as granulating agents. These produce an attractive, polished tablet, but have a bad effect on the solubility. To avoid the use of water, I have tried to get crystals of the "santonin" type which would run freely through the "hopper," but without success, although some samples of assiving contains consisting contains a supplier of several contains a supplier of the samples of several contains a supplier of sever although some samples of aspirin contain appreciable quantities of crystals of this type.—William A. Knight, Ph.C.

Almanacs and Calendars.

ARTHUR H. Cox & Co., Ltd., manufacturing chemists, Brighton, send out a pocket-diary (4 in, by $2\frac{1}{2}$ in.) handsomely bound in leather and conveniently thin. The general notes are compactly arranged in accordance with the scheme of the volume.

J. C. Eno, Ltd., Blackfriars House, New Bridge Street, London, E.C. 4, distribute a well-printed calendar (3½ in. by 2½ in.) in booklet form. A supply is offered gratisto retail pharmacists who have displayed Eno's Fruit Salt during last year, or are willing to do so during this year.

Edward Cook & Co., Ltd., The Soapery, Bow, London, E. 3, issue an artistic calendar ($8\frac{1}{2}$ in. by 5 in.) of the day-by-day type, with silver lettering on a dark-green ground. We have also received from Messrs. Cook a notebook ($3\frac{3}{4}$ in. by $2\frac{1}{4}$ in.), smartly bound in leather, with pencil and indicator.

Mr. P. Barrs, F.C.S., analytical and dispensing chemist, 106 Church Street, Kensington, London, W. 8, sends out a wall-calendar (11 in. by 10 in.) having above the tear-off portion a reproduction of Birney's "Where the Fox Ran." This picture of squires in hunting dress studying a map has some brilliant contrasts of colour and lighting.

Notes on Books.

WITH A WELSH PREMIER

and Welsh secretary of the Pharmaceutical Society, it is interesting to hear from one who poses as an authority what are the distinguishing qualities of the Welsh. Mr. J. T. Harries, in his "Shakespeare and the Welsh," makes a large claim for them. He contends that not Shakespeare only, but many of his most eminent contemporaries, owed what was best in them to an infusion (and often more than an infusion) of Welsh blood. He accounts for the poet in Shakespeare—"the sporadic appearance of genius in an unremarkable middle-class family"—by the Celtic strain in him, derived from his grandmother, Alix Griffin (or Griffith), wife of Richard Shakespeare of Wroxall—who, by the way, was akin, Mr. Harries presumes, to Sir Nicholas Bacon, father of the famous Francis. The Cecils and the Herberts were of Welsh blood, as were also such lesser folk as the Williamses, the Myddeltons, Howell the traveller, and many others. The Tudors themselves were traveller, and many others. The Tudors themselves were Welsh. What, then, are the qualities which may fairly be regarded as possessed by these Welshmen in an eminent degree? Mr. Harries naturally lays most emphasis upon their virtues: they are "gentle," musical, mystical, poetical, religious; they are "indomitably courageous," chivalrous, loyal, honest, affable, generous, mirthful and trusty; but at the same time they are adroit, shrewd, and homely. The only failings with which Mr. Harries charges them are morbid sensitiveness and fiery temper. I have known many Welshmen of whom all this was true, but a few I have met who reminded me strongly of the second class in the famous division of Scotchmen. Perhaps it is a case of corruptio optimi.

" CALIBAN."

Mr. W. L. George's latest novel, published under this title (Methuen & Co., Ltd.), is a thinly veiled psycholotitle (Methuen & Co., Ltd.), is a thiuly veiled psychological analysis of a well-known Napoleon of newspaper dom. It gives the life-history of Richard Bulmer, from the time when he started the school magazine in a private scholastic institution in Maida Vale, by way of his editorship of the "Journal of the North-West Lordon Literary and Debating Society," to the final evolution of "Zip." This was a magazine of the "scissors-and-paste" variety, rum after the style of "Tit-Bits" and "Answers," and chemists will be interested to know that the early vicisitudes in connection with "Zip" were that the early vicissitudes in connection with "Zip" were ultimately overcome by a brilliant idea of Bulmer's in connection with a peculiarly atrocious series of murders connection with a peculiarly alrocious series of murders by a man named Machen. Machen had murdered his wife and three children by slow poisoning. He was a chemist in Muswell Hill, and had used "an organic compound refractory to reagents." He had been subtle enough to vary its use so as to kill his wife and first child without suspicion, but he had bungled "by overdosing the represent shift as a certain guarantic." the youngest child, as a result of which a certain quantity of unassimilated drug was found in the body." The genius of Bulmer was shown in securing an account of his life by Machen for publication in "Zip," and after this initial success Bulmer went alread without turning back. Mr. George shows a keen insight into everything appertaining to newspaper production, not only on the literary but also on the advertising side. One of his characters, for instance—Mr. Felton, a Cabinet Minister at the time Bulmer had been created Lord Bulmer of Bargo Court in recounting to his wife details of the week-end visit to that palatial mansion, said, among other things: "Oh, I can feel the white woolly mat that lies underneath the cork mat in the bathroom, and the soul of Morny rise from the varieties of bath salts." Again, a little further on, Janet Willoughby, to whom Bulmer becomes genuinely attached, but who rejects him in the long run. in one of their conversations on love, makes the following cryptic statement: "Love does not sanctify in the way that lysol disinfects, love happens." From these few excerpts chemists will gather that an enjoyable hour or two can be spent in reading Mr. George's latest creation.

"SHELL-SHOCK,"

says Dr. Millais Culpin in his "Psycho-Neuroses in War and Peace," is a misnomer, many of the sufferers from it having never been near enough to a bursting shell to suffer any bodily effects. This, like other nervous symptoms, is of psychological, not of physical origin, and the best explanation of it is, he says, that of repression, as Freud uses the term in connection with dreams. Past experiences one does not care to recall, and desires which are incompatible with the conscious idea of the self are repressed into the unconscious, and thence give rise to symptoms for which the sufferer cannot account. The proper treatment consists in bringing these "buried memories" back to the consciousness by analysis and hypnotism, or possibly by simple suggestion. Success is not always obtainable, but Dr. Culpin has been able by these means to bring relief to many of his patients and apparently to effect permanent cures. For "the nervous student" these facts have an obvious importance. They suggest that he has merely to "face the spectres of the mind" beldly in order to lay them. This, he may say, is just what he cannot do, but that is to beg the whole question. Nervous people are often anything but deficient in will power, and by cultivating a habit of self-reliance, by analysing the factors that betray them into weakness, and persistently combating them by every available means, the liability to such weakness may at least be greatly diminished, and often entirely overcome. It is, indeed, impossible to avoid succumbing when the crisis comes, unless it has been prepared for beforehand by this self-discipline, but normally constituted persons who so prepare themselves need not suffer from examination-shock, at any rate.

THE TREES, SHRUBS, AND PLANTS

of Virgil number (if all the works that have been attributed to him are really his) nearly 200; and, though he does not say much about their strictly medicinal use, a good deal that is interesting to the botanist may be gathered from him. Mr. John Sargeaunt, who is equally competent as a Virgilian scholar, a botanist, and a lover of Italy, has comprised most of this in his little book "The Trees, Shrubs, and Plants of Virgil," and has added much by way of illustration from the stores of his own knowledge and observation. The result is a very delightful volume in the form of brief notes on every one of the poet's plants. I have often wondered why, instead of the first book of the Æneid, one of the Georgics was not chosen, in the old days, for candidates for our Preliminary examination to break their teeth on, and with this book in my hand I wonder more than ever. It would certainly have helped to stimulate interest in one of the subjects of the Minor. Mr. Sargeaunt has not been able to identify quite all the plants mentioned by the poet, but he corrects certain mistaken identifications of other writers. In some cases he hesitates between two possible explanations; he is uncertain, for instance, whether by hyacinthus we are to understand the martagon lily or the corn-flag (Gladiolus segetum). He confuses Laurus nobilis with Laurus camphora, and still more strangely speaks of the opium poppy as the source of haschish, but these slips are the only ones I have noticed. Some of his philological notes are very interesting: he regards oliva and olea as two forms of the same word, and explains juniperus as Juno's pear; it would be interesting to know by what authority. Skeat adopts the old derivation from iuni and parere, and explains it as signifying "youth-renewing." In what he says of phaselus (usually translated "kidney bean"), Mr. Sargeaunt appears to be at variance not only with modern editors of Virgil, but with old w:iters cited by Gerard; his explanation of the term accounts, however, for the direction to sow t

CHILIAN SALTPETRE.—"The Times" announces that a Saltpetre Producers' Association, comprising 98 per cent. of the saltpetre producers of Chile, has been formed, with a view to limiting production and fixing the selling price of saltpetre up to January 1924.

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Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Jan. 6.

The produce markets have begun the year with a slightly more cheerful feeling, but naturally the size of orders is quite small in view of the trend of prices, and many firms have not yet completed their stocktaking. The fact that no important failures have so far been announced in Mincing Lane is all to the good. A rebound in the rubber, pepper, and star anise oil markets is a feature since the holidays. Business in drugs has scarcely revived, but prices as a rule continue to favour buyers. Ergot has been pressed for sale and is cheaper; lycopodium and valerian are also easier. Menthol is on the weak side. Hydrastis is scarce on spot, but lower for forward delivery; senega is easy. Anise is easier, and caraway seed lower; coriander is neglected, and fennel steady. Shellac is lower on spot, but higher for delivery. Linseed oil has declined considerably. Mercury is lower, and the salts have been reduced 4d. per lb. Platinum has declined by over 120s. per oz. Agar-agar and egg albumen are easier.

Fire	ner	Lower		
Anise oil, star Peppers Easier		Acetanilide Aniline oil and salt Barium chloride	Lemongrass of Lime oil (h.p.) Lin ead oil Mandarin oil Mercur a's	
Acetic acid Albumen Anise Atropine Bay oil Bergamot oil Citronella oil Cloves Coal tar Cocaine Copper sulphate Farina Lemon oil Llnaloe oil Lycopodium Menthol Mint oil (Jp.) Orange oils	Oxalic acid Palmarosa oil Peppermint oil Petitgrain oil Petitgrain oil Phenacetin Phenacetin Phenacone Piperazine Potash bromide Rosemary oil Soda bichromate Soda prussiate Soda sulphide Terpin hydrate Thyme oil (Sp.) Vetivert oil (Bourb.)	Benzol Borax (makers') Caraway seed Carbolic actd Ctinamon oil (Cey.) Citrates Citric acid Clove oil Cocoa butter Codeine Cream of tartar Emetine salts Ethers, methylatad Formaldehyde Geranium oil (Bourb.) Gingergrass oil	Mercu-y Mi k sugar Naphthaline Para- formaldehyd Platinum (dealers) Sal prunella Salicin Salicylic acid Salteylic acid Salteyle Shellac Sulphur Tartaric acid Toluol Valerian root Vamillin Vermillon	
		Hexamine		

Cablegram.

New York, January 4.—Business is fair, with the following chemicals showing a reduction: Salicylic acid is 35c. per lb.; aspirin, 85c.; sodium salicylate, 40c.; methyl salicylate, 55c. Among drugs the following are lower: Mexican sarsaparilla, 38c.; jalap, 40c.; senega, 85c.; mercury, \$43.00; and refined camphor, \$1.00 per lb.

London Markets.

AGAR-AGAR is quiet and easier, with Japanese No. 1 offering at 2s. 3d. and No. 2 at 2s. 2d. per lb.

Belladonna Leaves are offered at 1s, 5d, per lb. on the spot.

CAMPHOR (REFINED).—Japanese slabs are quiet, with spot sellers at 5s. per lb. and Chinese slabs at 4s. 9d.

CASTOR OIL.—French is lower on spot at 100s. per cwt. in cases and 95s. in barrels.

CHAULMOOGRA Oil.—Genuine pale quality can be had at about 4s. 6d. per lb on the spot.

CHIRETTA.—Fair-sized quantities have arrived lately, but prices keep steady and unchanged at about 1s. 3d. per lb.

CINCHONA.—At the auction of Java pharmaceutical bark

to be held at Amsterdam on January 19, 1,965 packages, weighing 102,393 kilos., will be offered.

Coca Leaves.—At the auction to be held at Amsterdam on January 19, 3411 packages, weighing about 181,473 kilos., will be offered.

COCOA BUTTER is easier, with spot sellers at 1s. 11d. per lb., duty paid, for not less than 1-ton lots.

COLCHICUM Root is offered at 2s. per lb. on the spot. Egg Products remain quiet. Chinese liquid hen-yolk is offered at from 55s. per cwt. for old season's as to quality, 80s. for new season's prime. Afloat is quoted 74s. to 75s., and April-June shipments 92s. 6d. c. if. Dried yolk is 6d. uer lb. on the spot, sprayed whole egg 1s. 3d., and native dried whole $7\frac{1}{2}d$. per lb. spot. Prime Chinese hen albumen is 3s. 9d. per lb. on the spot, and January-February shipment is 3s. $4\frac{1}{2}d$. c.i.f.

ERGOT.—There has been more pressure to sell of late, from 8s. to 8s. 6d. per lb being quoted for Spanish on the spot.

FARINA.—Japanese is easier, No. 1 on the spot offering at 26s. per cwt. and January-March shipment at 23s. c.i.f. Dutch is offered at 23s. c.i.f.

LIQUORICE ROOT.—Fair natural Persian is offered at from 45s. to 47s. 6d. per cwt., and for decorticated 110s. Lycopodium is easier, spot supplies offering at from 18s. to 19s. 6d. per lb., according to seller and quantity.

MENTHOL is quiet, with spot sellers of Kobayashi-Suzuki at 25s. 6d. per lb., and January-February shipment at 16s. 6d. c.i.f.

MERCURY has fluctuated almost daily. After the close of our last report the market declined to 131. 10s. to 141., and on Monday fell to 121., but on Wednesday closed firmer at from 121. 5s. to 121. 10s. per bottle, prices showing considerable irregularity.

PLATINUM.—After having been reduced prior to Christmas by the chief refiners to 22l. per oz., the price has again been very substantially reduced to about 16l. by certain refiners, although the leading interests quote above that figure. Business is purely a matter of negotiation, while the market is very unsettled and weak. As a matter of fact, business has been done at all sorts of prices down to 13l. per oz. and even less. The depression is largely explained by the considerable lots of Russian metal that have come on the market lately through neutral sources. There is apparently a lot of material now handled by refiners.

Sassafras.—The spot value is about 3s. 3d. per lb. Senega is easy, with spot sellers at 6s. 3d. per lb.

SHELLAC has declined a further 30s. per cwt. on the spot, with spot sales of usual standard quality TN Orange at from 370s. to 340s. per cwt. Fine lemon is about 100s. lower at 500s.; fine second Orange is 380s., purbutton is 525s., and cakey AC 420s. Futures are dearer on balance, the sales, including March, from 210s. to 250s. to 225s. per cwt.

Landings and deliveries of Orange, Garnet, and Button during the month of December are given as 1,068 cases and 2,538 cases respectively, and the stock on January 1 as 12,223 cases, compared with 14,641 cases a year ago and 26,858 cases in 1919. The total London landings for 1920 amounted to 47,787 cases and total deliveries 50,281 cases, against 67,180 cases and 79,647 cases respectively in 1919.

SLIPPERY ELM BARK.—For a parcel about landing 2s. 1d. per lb. is asked.

TURPENTINE.—Buyers are very shy, owing to fears of lower prices, but there is no real pressure to sell at current rates, although there are ample supplies in warehouse. With trade requirements still limited for the present, and America uncertain, dealers are not much inclined to enter into new forward contracts. Spot and to April is still 1008.

VALERIAN ROOT.—Belgian is offered at 80%, per cwt. on the spot.

VERMILION.—Following on the reduction in mercury, English makers reduced their prices to 5s. 1d. to 5s. 4d. per lb., according to quantity.

WAX, PARAFFIX, ranges from $7\frac{1}{2}d$. to $11\frac{1}{2}d$. per lb. in bags, according to melting point.

Seeds and Spices.

ANISE is easier for Spanish at 75s. per cwt., but Russians is firmly held for 85%.

CANARY SEED is quietly steady at 130s, per quarter for

good Morocco and 100s. to 110s. for ordinary, Caraway Seed is lower at 35s. to 36s. per cwt. for fair Dutch on the spot

CLOVES.—Zanzibar are quiet, and the turn easier, at from 1s. 1d. to 1s. 2d. per lb., as to sample; December-January shipment is quoted at 10d. c.i.f.; near at hand has been sold at 11/1. c.i.f.

CORTANDER SEED continues neglected, and quotations are nominally unchanged at 19s. per cwt. for sound and 13s. for wormy.

CUMIN SEED is in little demand, and the price is unaltered at 22s. 6d. to 25s. per cwt. for fair to good sifted

DILL SEED is quoted nominally 24s. per cwt. Fennel Seed is steady at 37s. 6d. per cwt.

Fenugreek Seed is unchanged at 10s. to 10s. 6d. per

Fenugreek Seed is unchanged at 10s. to 10s. 6d. per ewt. for fair Morocco, according to quantity. Petfer is dearer, the value of fair black Singapore being $4\frac{1}{8}d$. to $4\frac{1}{4}d$. per lb., with business thereat; sales to arrive include January-March shipment at $4\frac{1}{16}d$. to $4\frac{1}{4}d$. per lb. c.i.f. Lampong is $4\frac{1}{2}d$., Tellicherry 5d., and Aleppy $4\frac{1}{2}d$. per lb. White pepper is also firmer, sales including Muntok on the spot at $8\frac{1}{6}d$. January-March shipment has been sold at $7\frac{5}{8}d$. to $8\frac{1}{8}d$., and February-April shipment at $7\frac{7}{8}d$. to $8\frac{1}{4}d$. c.i.f. Singapore on the spot is $7\frac{3}{4}d$., and January-March shipment $7\frac{1}{4}d$. c.i.f.

Spices in 1920.

THE following table shows a few of the changes in values in the spices on the London spot market during 1920:

		January	December
Singapore black pepper		$11\frac{1}{4}d$.	4d.
Aleppy ,, ,,	***	11d.	41d.
Tellicherry ,, ,,		$1s. 1\frac{3}{4}d.$	$4\frac{3}{4}d.$
Singapore white pepper		$18.5\frac{1}{3}d$.	$7\frac{1}{2}d$.
Muntok ,, ,,		$1s. 5\frac{9}{4}d.$	8d.
Pimento		€d. to 6\d.	$3\frac{1}{2}d$. to $4d$.
Zanzibar cloves		$2s. 4\frac{3}{4}d.$	1s. 3d.
Cassia (cwt.)	100s. .	458.
Cinnamon	***	2s. 9d. to 3s. 3d.	1s. 6d. to 1s. 8d
Cinnamon chips		$9\frac{1}{2}d.$	4d.
Cochin ginger	***	70s. to 75s.	45s. to 50s.
West Indian nutmegs	***	1s. 4d. to 2s.	9d. to 1s. 4d.
Penang and Singapore	nut-		
megs		2s. to 2s.4d.	11d. to 1s. 6d.
West Indian mace	***	1s. 6d. to 2s.	10d. to 1s. Ed.

It will be seen from the above figures that to-day's prices At will be seen from the above figures that to-day's prices are in many instances as low as the normal pre-war standard, and it may be assumed that in those cases further reductions are unlikely, although there is no immediate prospect of recovery. All descriptions of almonds (excepting Jordan) are much lower on the year. Sweet Alogador have fallen about 100s. per cwt., Faro about 90s., Sicilian about 80s. to 85s., and Valencia about 50s. per cwt.

Essential Oils.

The feature of the week is afforded by star anise oil. Spot holders have been able to realise at much higher prices than those current during the past fortnight, while the forward position is also higher. In other essential oils the decline in values continues, and for many of the lesser used articles there is little or no demand. Sicilian products are very weak in the absence of buying, while East Indian oils are declining as the value of the rupee approaches its pre-war equivalent. There is practically no demand for Spanish oils. Clove is cheaper, and as the forward price of the spice is moving downwards a further decline is probable. Bay, linaloe, and petitgrain are very quiet and on the easy American peppermint is easier, but Japanese mint has been maintained slightly above buyers' ideas of value, although there are signs of a break. Vet vert oil is easier, and Bourbon geranium is lower. Algerian geranium is comparatively scarce, and the price is not

expected to decline much below its present level.

Anise, Star, is dearer. Spot sellers at 2s. 9d. per lb. appear to have cleared, and 2s. 10d. to 2s. 10½d. has since been paid. For January-February, shipment quotations have been made at from 2s. 10½d. to 3s. 1½d. c.i.f.

Since the above was written a further considerable improvement has taken place, up to 3s. 2d, having been paid with 3s. 3d. asked. It appears that Germany has been buying in China of late, but the higher price of 38. c.i.f. is now quoted from that source, and apparently she is turning her attention to this market.

BAY.—West Indian is weak on spot at 22s. 6d. per lb. Bergamor is quiet and easier, spot holders quoting from 30s. to 32s. 6d. per lb. for 37 to 38 l.a. Forward quotations vary from 26s. 6d. to 30s. c.i.f.

Bois de Rose (Femelle).—Spot is quoted about 35s. per lb. spot, and 30s. has been mentioned as the forward price.

CAMPHOR.—Small spot sales of Japanese essential white have been made at 180s. per cwt. spot. Low gravity brown oil is quoted at 125s. to 130s., and high gravity at 165s. spot.

The exports from Japan during September amounted to 4,833 kin, valued at 10,205 yen. During the nine months ended September 30 they were as follows:

1919 1920 500,225 2,024,984 118,753 763,402 1918 ... 1,023,889 ... 205,148 Yen *** 763,402 ***

CEDARWOOD.—Spot holders quote 4s. to 4s. 3d. per lb. in large drums.

CINNAMON.—Ccylon leaf is lower, spot holders quoting 64d, per oz.

CITRONELLA.—There is practically no demand, and Ceylon is weaker on the spot at 1s. 9d. to 1s. 10d. per lb. Java is nominal at 4s. 9d.

CLOVE is easier, English distilled offering at 10s. 6d.

GERANIUM.—Bourbon is lower, being obtainable on spot

at 36s. per lb. and forward at 32s. c.i.f. Algerian is unchanged; spot holders are quoting from 40s, to 43s., although some place the value slightly higher.

GINGERGRASS.—For shipments affoat 15s. per lb. is quoted, which is lower. Five pots have arrived recently

in London from British India.

LAVENDER.—Mont Blanc 37 per cent. esters is quoted at 40s, per lb. forward c.i.f. For a tip-top French oil, testing 43 to 44 per cent., 46s. c.i.f. is quoted.

LEMON.—Spot holders are quoting from 4s. to 4s. 9d. per lb., according to source, and sales have been made around these prices. Forward quotations are irregular, but 4s. to 4s. 5d. c.i.f. appears to be about the average quotation.

Palermo, December 29.—The market continues to be depressed, and prices paid locally have been lower than those on which the last calculations were based. The weak tone of the market is influenced, apart from the continued smallness of the demand, by the limited export of fresh fruits consequent upon the crises prevailing on important consuming markets and upon the dulness of business in control.

LEMONGRASS is very weak and lower, spot holders quoting 6d. per oz.

quoting 18s. 6d. per lb. for hand-pressed. Distilled is nominal at 4s. 6d.

LINALOE.—Mexican wood is easier on the spot at 30s.

to 45s. per lb. Forward offers have been made at from 30s. to 35s. c.i.f. MANDARIN.—Spot is lower, being quoted at from 40s.

MINT.—Japanese dementholised is quiet and nominal at 5s., although small sales have been reported at 4s. 9d.

per lb. on the spot for Kobayashi-Suzuki. Forward quotations at 4s. c.i.f. for January-February shipment appear to be above buyers ideas of value.

Orange Olls are very flat. Sicilian is in small demand at from 15s. 6d. to 17s. per lb. for spot. Forward quotations are made about 14s. 6d. to 15s. West Indian sweet is quoted at 14s. spot, but a firm offer of less would probably be accepted.

PALMAROSA is slightly weaker at 20s. per lb. in original pots. Small lots have been sold at 21s.

PATCHOULI is substantially unchanged, spot holders quoting from 75s. to 78s. per lb., according to seller and ver lb.

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PEPPERMINT.—American tin oil is easier at 32s. to 33s. per lb. for spot.

Petitgrain.—Paraguayan is on the easy side at from 22s. 6d. to 23s. 6d. per lb. spot.

PINE.—An American oil is offered to replace the oil from 'Abies siberica, at present unobtainable. It is described

as B.P. and quoted at 6s. 9d. per lb.

ROSEMARY.—Freach is lower at 5s. per lb. for spot.

There is a weaker tendency in Spanish at 3s. 6d. to 4s. 3d.

per lb., according to seller and quantity.

SANDALWOOD.—Mysore (not Government), containing 90.35 santalol, has been reduced, and a bid of 37s. per lb. would probably be accepted for forward delivery c.i.f. London.

THYME.—French white with 40 per cent. phenols is obtainable at 12s. to 12s. 6d. per lb. Spanish oils are easier, red, containing 30 to 35 per cent. being quoted at 7s, to 7s. 3d. per lb.; 40 to 45 per cent., 8s. 3d.; and 60 per cent., 10s. 6d. White is obtainable at 10s. 3d. on spot for

30 to 35 per cent.

Vetiver.—Bourbon on spot is lower at 45s. to 47s. 6d. per lb. Java is now offered in fair quantity on

spot, but extremely high prices are being asked.

Pharmaceutical Chemicals.

With the exception that a few products have further declined in value, there is very little change to report in market conditions. Business continues on the small side, with buyers at a distinct advantage. The more notable reductions include cream of tartar, citric acid, and, to a less extent, tartaric acid. Also, milk sugar, iodine, hydroquinone, salicylic acid, acetanilide, caffeine, salicin, and vanillin. Hexamine is very irregular. Quinine is lower in second-hands. Methylated ethers are 3d. cheaper. If, as has been reported, the Government is to prohibit the import of "synthetic drugs" and "fine chemicals" under the new tripartite Bill to be introduced early in the next Session, then affairs may assume a different complexion, and holders will be less ready to sacrifice their goods.

ACETANILIDE can be had at 2s. 3d. to 2s. 6d. per lb.,

being cheaper.

AMIDOPYRIN continues quoted on a quiet market at 26s. per lb.

Ammonium Bromide is in little demand, ample supplies offering at about 1s. 3d. per lb.

Aspirin is easier, B.P. quality offering at 3s. 6d. per lb. Atropine is cheaper, with spot sellers of sulphate at from 35s. to 40s. per oz.

Barbitone is quoted at from 17s. per lb. upwards. Benzaldehyde (0.03) is unchanged on a dull market at

5s. to 5s. 6d. per lb.

Benzonaphthol remains quiet, with values at about 98. 6d. per lb.

Boric Acid.-Makers' prices are unchanged on the basis of 741, per ton for commercial quality of crystals and 761. per ton for powdered.

CAFFEINE is steady but in little demand, and at makers' price of 33s. per lb. for pure; dealers quote 31s.

CHLORAL HYDRATE is firmer, and quotations average

about 5s. 6d. per lb., with fair business doing.

CITRATES,—Current makers' prices are: potassium,
4s. 2d.; sodium, 3s. 5d.; ferri ammon. cit., 3s. 11d.; and

virid., 4s. 11d. per lb.

CITRIC ACID has been forced down by sellers anxious to clear, and is being freely offered at 2s. 2d., less 5 per cent. which must be below makers' cost.

COCAINE is easier, with sellers of hydrochloride at from

15%. to 15%. 6d. per oz.

CODEINE.—English makers have reduced the price of pure crystals to 21s. per oz., and hydrochloride, sulphate and phosphate to 17s. per oz. on contract.

CREAM OF TARTAR is much lower, B.P. quality of foreign

make offering at 170s, per cwt.

CREOSOTE CARBONATE is steady and quiet at 20s. per lb. CREOSOTE, B.P., continues quiet, with values about the same at 6s. per lb.; ex maplewood (U.S.P.) is 4s. 6d. to

ETHERS (METHYLATED) have been reduced by 3d. per lb., WANILLIN is making the price of W. quarts as follows: S.g. 0.720, to 56s. per lb.

2s. 1d. per lb.; s.g. 0.725, 2s.; and s.g. 0.730, 1s. 10d. per lb., with the usual reduction for quantity.

GUAIACOL CARBONATE is steady and quiet at 198. per lb. HEXAMINE.—Considerable irregularity has prevailed, and although business has recently been done by weak sellers at down to 5s. and 5s. 3d. per lb., the closing. values are about 6s. to 6s. 6d. per lb.

Hydroquinone is lower on a quiet market at from 68,

to 7s. per lb.

MERCURIALS have been reduced by 4d. per lb., making assorted lots of under 1 cwt, as follows: White precipitate, 5s. 9d.; corrosive sublimate, 4s. 11d.; calomel, 5s. 4d.; red precipitate, 5s. 2d.; levig., 5s. 8d.; yellow oxide, 5s. 6d.; white sulphate, 4s.; and sulphuret with mercury, 4s. 6d. per lb. net.

METHYL SALICYLATE meets with little business at 38, to

38. 3d. per lb.

METHYL SULPHONAL continues dull, with values fairly well maintained at 27s. per lb.

MILK SUGAR is cheaper, B.P. quality offering at from

170s, to 180s, per cwt. as to quantity.

Morphine.—English makers' price of hydrochloride powder is 14s. 6d. per oz. Paraformaldehyde is again cheaper, and is now offered

at about 4s. 9d. per lb.

Paraldehyde remains at 2s. 9d. per lb., with but very little inquiry.

PHENACETIN is easier on a quiet market at from 10s. 6d. to 11s. 6d. per lb.

PHENAZONE is only moving slowly, with values steady at about 9s. 9d. to 10s. per lb.

PIPERAZINE is weak, and prices have eased off a little

to 5s. 6d. per oz.

POTASSIUM BROMIDE is again easier, with prices from 11½d, per lb. upwards; market is very weak, and supplies freely offered.

Potassium Permanganate, B.P., is in little demand, with offers round about 2s. 10d. to 3s. on an unsteady market.

Potassium Sulphoguaiacolate is steady and remains

quoted at 15s. per lb.

QUININE.—The makers' price for sulphate in bulk is still 4s. 1d. per oz., but from second-hands it is possible to buy small parcels at about 3s. 6d. per oz. The large arrivals which have taken place lately somewhat over-shadow the market. Hydrochlor, can be had at about 4s. to 4s. 3d. per oz.
Salicin.—Makers have reduced the price to 28s. per lb.

for 1-cwt. contracts.

Salicylic Acid.—It is predicted that at least technical salicylic acid will be placed on the list of prohibited imports as one of the intermediates, which the Board of Trade has promised to issue. Meanwhile, there has been a little buying, but prices are very irregular. Small lots of B.P. powder are obtainable at 1s. 8d. per lb., and quantity at less.

Salol is quiet, with values unchanged at 4s. 3d. to 4s. 6d.

per lb.

SILVER NITRATE.—The price for crystals on January 5 was based on a metal price of $42\frac{1}{2}d$. per oz. as follows: In quantities of 25 oz., 2s. 8d. per oz.; 50 oz., 2s. $7\frac{1}{2}d$.; 100 oz., 2s. 7l.; 250 oz., 2s. $6\frac{1}{2}d$.; 500 oz., 2s. 6d.

SODIUM BENZOATE is about the same at 28. 6d. per 1b.

on a quiet market.

Sodium Browide continues to be quoted at about 1s. 2d. per lb., but there is little demand.

SODIUM DIETHYLBARBITURIC is lower on a dull market, offering freely at 25s, per lb.

SODIUM SALICYLATE is 2s. 3d. to 2s. 6d. per lb. for B.P. powder. Sulphonal is unchanged at from 24s, to 25s, per lb., with

the market dull.

Tannic Acid.—Leviss remains quiet and steady at 58. 6d. to 6s. per lb.

TARTARIC ACID is weaker at 2s. per lb. for powder and 2s. 1d. for crystals.

TERPIN HYDRATE is a little cheaper at current quotations of 5s, 9d, per 1b.

THYMOL is offering at 37s. 6d. per lb. on the spot. Vanillin is dull and weaker, with prices at about 55s.

Heavy Chemicals.

London, January 5.

Although there is but small improvement in the amount of business being transacted, and values have not yet ceased to fall, there is reason to hope that this month will see a gradual, if small, improvement both in the amount of business and the tone of the market. The following changes are important; makers of borax products have reduced their prices; acetic acid is again cheaper, and continues to be a weak market; formaldehyde is a shade lower; and oxalic acid is inclined to weaken. Sulphur and saltpetre are lower.

ACETIC ACID, after a number of reductions, is again offering freely, but there is nothing like a good demand for the considerable stocks available; 80 per cent. pure is about 66l.; technical, 80 per cent., about 57l. 10s.; and glacial at about 73l. are the current prices.

ACETONE remains quiet and unchanged at 105l. per ton

for British Government specification.

ALUM is not moving, small parcels being available at about 19l. per ton.

BARIUM CHLORIDE is cheaper on a quiet market, best white offering at about 201. per ton.

BARYTES is particularly quiet, with prices nominally at about 6l. 5s. up to 11l. per ton., according to quality.

BLEACHING-POWDER is moving but slowly at about 231. 10s. for 35-per-cent, material.

Borax.--Makers have reduced their prices by 3l. per ton, quoting commercial quality crystals or granulated at 38l., powdered at 39l., and extra fine at 40l. B.P. quality is 4l. per ton more than the foregoing. Borax glass, lump, is 99l. and powdered 100l. per ton.

COPPER SULPHATE continues to be quiet, and but small inquiry is coming through; prices have again declined to 39%, per ton in casks and 38% in bags.

Erson Salts remain at 8% per ton for commercial quality; there is not much inquiry, and the market is

weak.

FORMALDEHYDE is again easier, and now freely offering in the region of 135l. to 140l. per ton, but there is not much demand.

GLAUBER'S SALT remains steady and quiet at about 81.

per ton.

Lead Acetate remains unchanged from last week's prices on a quiet market at about 661, per ton for white crystals and 64l. for brown broken,

LIME ACETATE continues quiet, with values about same; 80 per cent, at about 27l, and 92 per cent, at about 34l. per ton.

LITHARGE is decidedly dull, with prices weak at about 411. per ton.

LITHOPONE remains fairly steady, with limited business, green seal offering at 40l, and red seal at 32l, per ton.

Oxalic Acid is again easier on a weak market, and stocks offering at about 1s. 4d. per lb., with only limited

Potassium Bichromate remains on the quiet side, with values difficult to maintain at 1s. 3d. per lb.

Potassium Carbonate is quiet and steady at makers'

price of 65l. per ton.
Potassium Chlorate remains dull at makers' reduced

price of $7\frac{1}{2}d$. per lb.

Potassium Permanganate is weak and unsteady, with offers being freely made at about 2s. 8d. to 2s. 9d. per lb., but business is small.

Potassium Prussiate.—Makers' quote red at 2s. 6d. and yellow at 1s. 7d. per lb. on a quiet market.

Saltcake is moving slowly, and remains fairly steady

at about 131. 10s, per ton in bulk.

SALTPETRE.—English refiners reduced their prices by 71. 10s. per ton on January 1, and now quote crystals or granulated at 65s. to 66s. per cwt., powdered at 67s. to 68s. per cwt. Prunella cakes are also lower at from 85s. to 86s., and powder at 87s. 6d. to 88s. 6d.; sal prunella of the various sizes are also proportionately re-

Nona Ash remains steady at makers' price of 8l. 10s. per ton f.o.r.; spot parcels offer at about 10l. per ton f.o.b.

Soda Crystals are not being asked for to any extent; makers' price is 7l. per ton, carriage paid, in bags.

SODIUM BICARBONATE is quoted by makers for home consumption at 9l. per ton; spot parcels of refined material offer at about 11l.; there is only a very limited demand.

SODIUM BICHROMATE is quoted by makers at $10\frac{1}{2}d$., parcels on the open market offering at 9d. to 10d. per lb.; only very limited inquiry, with small business; the market

SODIUM CAUSTIC is quoted by makers at 251. 10s. per ton for home consumption; spot parcels for export offer at about 28l. f.o.b.

SODIUM CYANIDE remains quiet, with values unchanged at makers' price of 1s. per 100-per-cent, basis per lb.

SODIUM HYPOSULPHITE is fairly steady for pea crystals in 1-cwt. kegs, which are moving at about 30%. per ton; commercial quality is not being inquired for, and is quoted by makers at 231. per ton for home consumption; spot parcels offering for export at about 261. per ton.

SODIUM NITRATE.—Refined, 96 per cent. material, is quoted on a quiet market at about 23l. per ton.

Sodium Prussiate is quoted by makers at 11d. per lb.; spot parcels are easier at 1s. per lb.

Sodium Sulphide is quiet, with values easier; makers' quoting at about 341, per ton; spot parcels offer at about 35l. to 36l.

SULPHUR is lower, Sicilian flowers offering at 191. per ton and roll at 181.

COAL-TAR PRODUCTS, ETC. -- A little more husiness is being done in this market, but values are still far from firm, and a few further falls in prices are registered. Makers of aniline oil and salts have fixed their prices for 1921 at 1s. $6\frac{1}{2}d$. per lb. for oil and 1s. $7\frac{1}{2}d$. for salt. Beta naphthol continues to be quoted at 2s. 6d. per lb., and is moving slowly. Benzol has declined on a weak market, pure being offered at about 3s. 4d., for which there is not much demand. Toluol has also fallen, commercial quality offering at 3s. 6d. per gal. Solvent naphtha is cheaper at the current price of 3s. per gal. Creosote oil remains a steady market, with a little business at 1s. 2d. to 1s. 3d. per gal. Carbolic-acid crystals are again lower, and now offering freely at 7d. to 8d. per lb., and moderate business is being transacted. Cresylic acid is unchanged at last week's figures of 2s. 6d. per gal, for crude. Naphthaline in all qualities is considerably lower, and the market remains quiet; crude is 12l. upwards; powder, 39l.; crystals, 39l.; and flakes about 401, per ton. Pitch is weakening on a dull market at about 81, 10s, per ton. Coal-tar is also inclined to ease, and is now quoted at 4l. 10s. per ton.

Italian Essential-oil Market.

Genoa, December 22.

A HIGHER eost of raw materials, caused through various reasons, brought an increase in the price of some of the essential oils during December. The following current quotations in lire per kilo, are given for essential oils and synthetic chemicals in Italy, and are based on a rate of exchange of about lire 100 to the pound sterling:

exchange of abou	it lire	101	U to	the pound ster	ling:		
			Lire				Lire
			per				per
			kilo				kilo.
Almonds, bitter, s.a	ı.p.		325	Gingergrass			200
Anise (Jp.)		75 t	o 90	Hyssop			200
Basil			400	Juniper berry		***	160
Bay			350	Kummel rect.			110
Bergamot			350	Laurel			125
Bois de rose			550	Lavender (Aosta	a)		350
Cajuput (Java)			40		tcham pl	an(s)	550
Cananga (Jaya)			260	Lemongrass			145
Caraway			200	Mandarin			350
Cardamom	• • •	٠٠٠,	,500	Marjoram			120
Cedarwood			60	Mustard			375
Cedar fruits	•••	•••	135	Neroli (Ital.)			1,500
643 13	•••	٠.,		, (Bigarad			3,500
	• • •		1,000	Nutmeg		•••	175
Cinnamon (Ceylon)	• • •	•••	550	Origanum, 60 9			200
Citronella (Ceylon)	• • •	• • •	48	Patchouli			850
(Java)		• • • •	78	Peppermint (Pi			270
Clove	• • •		185	Petit grain (Par			305
(Reunion)	• • • •	• • •	225	Red Thyme			128
Cognac, green	• • •		900	Rose (It.)			,800
Coriander	• • •	1	1,350	(Bulg.)		1	1,500
Cypress	• • •	• • •	220	Resemary (Sp.)	•••		130
Eucalyptus			50	Sandalwood (E.		500 to	
Fennel (sweet)			80			300 10	110
			500			50 to	
Geranium	•••	•••	500	Ylang-ylang	8	00 00 .	.,500

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10½d, per 16.

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Aromatic and Synthetic Chemicals.

			Time
	Lire		Lire
	per		per
	kilo.		kilo.
Acetaldehyde, C. 8	2,300	Ethyl malonate	400
Amyl acetate	90	,, p'ionyl acetate	350
" butyrate …	200	" valerianate	325
,, salicylate	120	Eugenol (100%)	275
,, valerianate	400	methylic ether	300
Anthranilic acid	200	Geraniol	185
Benzaldehyde, s.a.p	80	f	175
Benzyl acetate	95	***************************************	7.00
alcohol	175		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	115	Heliotropine (100%)	295
1. America	275	Indol	9,000
- 1	050	Isoeugenol	350
	500	Methyl anthranitate	295
	700	,, cinnamate	275
Bromstyrol	7.00	,, phenyl acetate	360
Cianamie acid		la and desired a	280
aldehyde	175	131-4-	
Citral	400		
Citronellyl acctate	610	Phenyl ethyl acetate	1,100
formate	600	Safrol	150
Coumarin	350	Thymol	700
Dianthol	350	Vani!lın	900
Diphenyl-methane	180	Xylol, musk	550

Arrivals of Drugs and Chemicals,

The following products have arrived at the Port of London:

(January 1 to 4). Chemical products, etc.: (N.Y.) 50 es. (N.1.) 50 cs.
Acetic acid, (Holl.) 196 cbys.,
(Germ.) 200 cbys. 24 cks.
Arsente (Syd.), 203 cks.
Barytes, (Sp.) 250 brls.,
(Germ.) 40 cks.
Milk-sugar (Holl.), 100 cs.
Nitrobeuzene (Germ.), 60 cks.
Silver nitrate (Germ.), 7 cs.

rrived at the Port of London:
Tartar (Fr.), 188 bgs.
Zinc oxide (Germ.), 170 cks.
Crude drugs, ctc.:
Anise (star) oil (Ch.), 130 cs.
Benzoin (S'pore), 184 cs.
Camphor (Ch.), 96 cs.
Cod-liver oil (Holl.), 50 cs.
Eucalyptus oil (Syd.), 615 cs.
Liquorice (Fr.), 119 cs.
Opium (Tky.), 73 cs.
Orange pcel (Sp.), 10 brls.
Safrol (Aust.), 9 cs.

French Drug and Chemical Markets.

Paris, December 29.

Paris, December 29.

The renewed and continuous weakness displayed during the month is partly, but by no means wholly, explained by the indifferent attitude of practically all buyers, which has been augmented by the approach of year-end inventory taking. Taking stock this year is proving a difficult process. A complicating factor in the situation is the discrepancies between original cost and replacement values. Moreover, prices are still falling, but whether the fall will continue after the holidays is problematical, and the valuations fixed at the end of the year may become obsolete in a few weeks. Owing to the shrinkage in wholesale prices the paradoxical situation will arise that many jobbers, after reading their balance-sheet, will consider themselves poorer. While prices in a number of items have been reduced to about as low a point as circumstances warrant, this has not served to bring about any large volume of buying. There has been the suspicion, which some occurrences seem to give colour

a point as circumstances warrant, this has not served to bring about any large volume of buying. There has been the suspicion, which some occurrences seem to give colour to, that sellers were simply trying out the market with low prices, intending to hoist same as soon as they create a real demand. December is always a dull month, and, on the other hand, large buying never begins in January, despite the habits of the trade towards the end of the year to predict improved conditions after January 1. However, as to the general trade position, perhaps we shall see more clearly after December 31.

INDUSTRIAL CHEMICALS.—Heavy lots of all kinds of industrial chemicals, coming especially from war stocks, which were suddenly thrown on the market, have had a depressing effect on prices, which have declined accordingly. Thus we have articles like soda ash, bichromates, etc., generally imported from England and the United States, which are sold here much cheaper than in said markets. Prices given below are per 100 kilos., and the English equivalents are figured at the rate of 58fr. to the pound sterling: Soda, arseniate, 270 (47s. 3d. cwt.); bicarbonate, 75 (13s. 1d. cwt.); bichromate, 350 (61s. 2d. cwt.); caustic, 70/72 180 (31s. 6d. cwt.); bichromate, 350 (61s. 2d. cwt.); caustic, 70/72 180 (31s. 6d. cwt.); cavile acid, 800 (139s. 11d. cwt.): naphthaline, crystal or powder, great demand for export, 150 (26s. 3d. cwt.); coalic acid, 800 (139s. 11d. cwt.): naphthaline, crystal or powder, great demand for export, 150 (26s. 6d. cwt.); caustic, 320 (5fs. cwt.): prussiate, red, 1,200 (38s. 6d. cwt.); caustic, 320 (5fs. cwt.): prussiate, red, 1,200 (38s. 6d. cwt.); caustic, 320 (5fs. cwt.): prussiate, red, 1,200 (210s. cwt.).

(210s. cwt.). PHARMACEUTICAL CHEMICALS.—Business is strictly band-to-mouth, and orders are placed only to fill immediate requirements. Prices are declining, although the stocks available are small. Improved conditions will be seen probably during January. Prices given below are per kilo., and the English

equivalents are figured at the rate of 58°r. to the pound sterling. Antipyrine, 75 (11s. 9d. lb.); atropine, 4.000 (38s. 8d. oz.); eocaine, pure, 1,700 (16s. 5d. oz.); cocaine, hyd., 1,770 (17s. 1d. oz.); digitaline, 120 (18s. 9d. lb.); morphine, hydrochlor., 1,600 (15s. 5d. oz.); pilocarpine, 3.900 (37s. 8d. oz.); pyramidon, 175 (27s. 4d. lb.); resorcin, 70 (10s. 11d. lb.); sparteine, 475 (4s. 7d. oz.); sulphonal, Bayer, 200 (31s. 3d. lb.); tartaric acid, 13.75 (2s. 2d. lb.).

French Drugs and Herres.—There is an accentuated scarcity for goods on spot. but a large volume of business has

FRENCH DRUGS AND HERBS.—There is an accentuated scarcity for goods on spot, but a large volume of business has been done for export. With an increased demand for narcotic plants higher prices are expected within a few weeks. The prices given below are per 100 kilos., unless otherwise stated, and the English equivalents are figured at the rate of 58fr. to the pound sterling: Agar agar, first, 1,475 (2s. 4d. lb.); agar agar, second, 1,370 (2s. 2d. lb.); apricot kernels, 375 (65s. 3d. cwt.); belladonna leaves, 550 (96s. 3d. cwt.); belladonna root, 400 to 500 (69s. 8d. to 87s. 3d. cwt.); celery seed, 350 (61s. 3d. cwt.); dandelion root, 550 (96s. 3d. cwt.); digitalis leaves, high grade, 375 (65s. 3d. cwt.); fennel seed, 250 (43s. 9d. cwt.); kola nuts, quarters, 350 (61s. 3d. cwt.); nux vomica, 360 (63s. per cwt.); nux vomica, 360 (63s. per cwt.); nux vomica, 320 (56s. cwt.); star price cwt.); nux vomica, 320 (55s. cwt.); Balsams are cheaper on spot than to import: copaiba is 22 (3s. 9d. per lb.), and Peru, 95 (14s. 10d. per lb.).

Japanese Menthol and Mint Oil.

The "Transpacific" (August 1920) gives the following tables of the prices for menthol and mint oil in Japan during the last eight years. The prices are in yen per 100 kin:

		Menthol	Mint Oil
1912	 	1,300-1,750	400550
1913	 	500-1,700	5 00— 6 00

In the following years the prices declined, and in 1916 the average price paid for 100 kin of menthol was 550 yen, and for 100 kin of mint oil 190 yen. After 1916 a rise in price set in, as is seen from the following figures:

	Menthol	Mint Oi
1919 (January)	1,450	32 0
1919 (July)	1,850	45 0
1920 (January)	4,200	1.050

Then followed a decline to-

Mint Oil . 670 Menthol 1920 (June) .. 2,700

In 1913 Germany imported from Japan 79,000 kin of menthol, representing one million yen, and 100,000 kin of mint oil, to the value of 345,000 yen.

Linseed Oil and Cake.

The "Bertels Oliefabrieken," Ltd., of Amsterdam, have addressed a petition to the Ministers of Finance and Agriculture complaining of the unfavourable position of the Dutch linseed-oil market in consequence of the protection which this industry enjoys in the United States of America. This protection consists of an import duty on linseed oil amounting to 10 cents per gallon, equivalent to fully ten Dutch florins per 100 kilos. It is reckoned, therefore, that the American industry receives for 1,960 kilos. (one last) of linseed about 95 flowins more than the Dutch manufacturers. the American industry receives for 1,960 kilos. (one last) of linseed about 95 florins more than the Dutch manufacturers. This enables the American crushers to sell linseed-oil cakes at a much lower price than the Dutch crushers can do. Consequently, North America floods Europe with cheap linseed-cake, and has praetically a monopoly market. The Dutch linseed-oil makers have thus been manœuvred into a precarious position. Moreover, the Dutch industry is threatened by the low currencies of the surrounding countries, in which manufacturers pay lower wages and lower prices for the raw material produced in their own countries. Proir to the war the United States exported annually about 250,000 tons of linseed-cakes to Holland. The "Bertels Oliefabricken" now suggest that the Dutch Government should impose an import duty on linseed-cakes in accordance with that which the United States places on linseed oil. In this manner the Dutch Government could avert the danger from the Dutch linseed-cakes be exported from America into Holland the Treasury would receive 11,500,000 florins in import duty without an increase in the prices of linseed-cake in Holland. Should America refuse to export its linseed-cake into Holland under these conditions, and prefer to sell it to other countries which do not impose import duties, there would be no danger of a scarcity of oil-seed cake, as the capacity of the oil-mills in Holland itself has greatly increased during the war, and linseed about 95 florins more than the Dutch manufacturers. a scarcity of oil-seed cake, as the capacity of the oil-mills in Holland itself has greatly increased during the war, and would be able to supply all the home requirements.



The Dentists Bill.

SIR,—Whether practising dentistry or not, nothing short of an amendment of Clause 1 (3) (a) as follows: "the practice of dentistry by a duly qualified medical practitioner or registered pharmacist," and the entire deletion of paragraph (b), should be accepted by pharmacists throughout Great Britain and Ireland. It would be interesting to know if the treatment of an aching tooth in a pharmacy would be considered "practising dentistry." Your excellent editorial article on the Pill be Your excellent editorial article on the Bill has been forwarded to my local M.P. for perusal.

A Non-dental Pharmacist (2/1).

Proprietary Articles Trade Association.

SIR,-Kindly allow me to thank the 932 members who have elected me to the Retail Section of the P.A.T.A. Council. I appreciate very much the honour, and it will always be my endeavour to justify the confidence proved by my election.

Yours faithfully,

Leeds. N. N. ARMITAGE.

SIR,-Will you allow me to thank the electors at the recent contest for representatives of the Retail on the Council of the Proprietary Articles Trade Association for the honour they have done me in placing me at the top of the poll? I shall do my best to justify the confidence the electors have shown me. Faithfully yours,

Poplar, E. A. R. KEITH.

The Retail Pharmacists' Union.

SIR,-May I ask the favour of space in your columns for the announcement that my resignation as assistant secretary of the Pharmaceutical Society having been accepted by the Council, I am now at liberty to push ahead with the organisation of the Pharmacists' Union. The Provisional Committee of the Union, at the meeting held this week, have decided upon a comprehensive propaganda campaign, which includes direct appeals by letter to each chemist in business, Press advertising, meetings, and other methods of publicity for the objects of the Union. The propaganda campaign will inevitably take two or three weeks to develop, and will not be complete for perhaps two or three months. It would be a great encouragement to me and to the Provisional Committee if pharmacists in business for themselves would apply for membership of the Union immediately, the first direct appeal is made, which should reach them in the course of about a week. The Union will be temporarily housed at 113 Temple Chambers, Temple Avenue, London, E.C. but as soon as possible suitable premises elsewhere will be obtained. I am confident the success of the Union is assured, since in my experience of pharmaceutical politics I have never known such complete unanimity in regard to a vital issue.

Yours faithfully, G. A. Mallinson, Secretary. Profits on Outlay.

SIR.—I have just received a special offer, which I presume the firm considers so alluring as to start us all writing cheques for 5l. 7s. 6d. worth of goods, to be carriage paid, free packages, and with the magnificent margin of 22½ per cent. on outlay. Now, why should firms try to throw dust in our eyes with these deceptive figures about percentages on outlay? I wonder if any firm figures its profits on outlay? The man or firm who figures on any basis other than turnover is going to be in the Bankruptcy Court, unless he really understands what he is doing; 22½ per cent, on outlay is 20.93 per cent, on turnous is 20.93 per cent. If you charge against your business the salary you could command by selling your services to another, it costs from 22 per cent, to 26 per cent, to run a retail chemist's business in this country (it costs 27 per cent. to 30 per cent. in the United States), or from $2\frac{1}{2}d$. to $3\frac{1}{2}d$ to serve every customer. Therefore I urge every fellow-pharmacist of an employer demanding to see an employee's record

to bear these facts in mind when these alluring offers on come along. At the same time do not lose sight of the fact that a quickly moving comparatively lowprofit line may pay you better than a slow-moving longprofit line. Faithfully yours,

Ross

Dispensing Chemists Responsibilities.

SIR,—"Veteran's" letter on "Dispensing Chemists' Responsibilities" (C. & D., January 1, p. 86) draws attention to one of the minor details which most of us have to contend with from time to time, and in these days, when chemists who, previous to the passing of the National Insurance Act, did hardly any dispensing at all, now do probably as much, or more, than the private dispensing chemist, points crop up more frequently than one might expect. Whether it is due to the rush of panel patients during evening surgery hours, and a corresponding hurry to write out the prescriptions, or whether it is accounted for by an inadequate knowledge of the solubility tables, panel scripts more often present difficulties of this nature than others, and the practice that many doctors have now of giving no directions at all, or else simply writing "m.d.u," or 'as directed,' gives the pharmacist no indication as to how to deal with the trouble. The boracic acid drops are frequently met with, though more often in aqueous solution for panel work, and with considerably more acid than will dissolve in the quantity ordered, but in the absence of directions we can only take it for granted that the doctor intends the patient to dilute with a given amount of warm water before using, thus dissolving the surplus boric acid, and we generally rub the acid up in a mortar and send out with a "Shake." But a more dangerous prescription is the one with carbolic acid for a mouth-wash or gargle, where the carbolic acid is in too large a proportion to dissolve, and in this case it is best to inquire if the patient has had any verbal instructions as to dilution, and to warn him that it requires care in this respect. It will frequently be found, however, that the customer has a very hazy notion as to what the doctor said; either the doctor was in a hurry or the patient did not follow what he said, as you cannot expect panel patients always to be conversant with a doctor's vocabulary. It would be an exceedingly good idea, as "Veteran" suggests, to arrive at some working formulas for these preparations, and there is no reason why they should not be included in the formulary books. If it is worth while publishing formulas for such items as "Mist. gent. acid," etc., it is surely much more so for doubtful things which may be dispensed in several ways. Yours faithfully. JUVENTUS (1/1).

Panel Patients' Cards.

SIR,-I see that following a letter in "The Times" there have been various articles in the Press on the subject of the new record-cards for panel patients, which are so drawn up as to afford a complete history of the person it belongs to from the age of insurance. This is, of course, the newest step to the Continental book of identity which has to be carried from birth to the grave and in which every event of one's life is officially recorded for the inspection of officials when required, but one cannot help feeling that to a certain extent the medical men have themselves to blame for this innovation, I believe it is correct to state that a panel doctor receives a certain sum over and above his capitation fee for the clerical work involved in keeping a record of panel patients' treatment, and it would be interesting and also perhaps surprising to find out how many trouble to keep any entries at all. To mention one item alone which most panel chemists have come across, that is the practice of handing the patient the triplicate prescription form supposed to be kept by the practitioner and instructing them to bring it on their next visit, thus saving trouble in look ing up the details of the case, or doing away with the entries altogether. At the same time the entry of and so on, and one would think that a better method could have been devised.

Yours truly,

Panel Record (29/12).

Women Assistants' Pay.

SIR,—Having worked in more than one pharmacy where there were lady assistants, I think that with regard to the slightly smaller rate of pay they have nothing to complain about. Equal pay for equal work certainly, but it never is equal, and never will be while women are women and men are men. In my own experience I found that if there were any hundredweight casks to be taken downstairs, drums of glycerin to be opened, distilledwater carboys to be fetched, syphon boxes to be moved, goods required from a top shelf, an extra-hard batch of pills to be made, or a disagreeable ointment job, it was a case of the man to the rescue every time, while the lady carefully selected the nice easy mixtures and powders, and was noticeably indignant if expected to do anything else. Please do not imagine that I expect women to do heavy lifting and so on, as, without entering into the ethics of the matter, I do not think they are physically adapted to such work; but when a male assistant, with perhaps a home to keep up, is expected to take the same remuneration as a single girl who deliberately leaves him all the rough work, it is time to insist on unequal pay for unequal work. Why, the Sunday work and late duty, which the lady never did, was worth double the money alone.

Yours faithfully, IR-RAGEL (27/12).

The Chemist's Place in Health Service.

SIR,—An article, written by a medical man to a daily paper on the subject of the condition of the hospitals and how to cope with the situation, gives a scheme of State medical service, to be run on the same lines as aducation under the Education Act. It is stated that under such conditions all the cheap dispensaries would disappear, the costs of running the hospitals would be halved, and all the expenses for the treatment of school children and the medical benefits under the Insurance Act would be abolished altogether. But note that in the whole scheme there is not one word as to the employment of pharmacists for the supply of drugs, although the medical officers attached to State clinics are to be assured of comparative affluence and security. The Ministry of Health is undergoing a set-back in its extravagant and expensive plans at the moment, but there is always an uneasy feeling when reading an article of this description that t has been partly inspired by the authorities to educate and also to test public opinion on the matter with a view o future action. It would be quite on a par with the sual ethics of a benevolent Government Department if he pharmacist, who has done all the spade work for the nauguration of the Insurance Act, who has suffered discounting and the cost-price tariff, were to be deliberately eft out of a State service, the dispensing being put into he hands of some new type of Civil servants to add to ur present muddle and taxation.

> Yours, etc., A BENEFICIAR (19/9).

Subscribers' Symposium.

Appreciations.

With pleasure I renew my subscription; the C. d D. s of great service.—W. L. (273/25).

It is with the greatest possible pleasure that I again enew my subscription to your invaluable journal. I elieve my father subscribed to the same from its commencement, and it has ever since been looked upon as weekly welcome guest.—J. J. R. (273/7).

Unprofitable Proprietaries.

Mr. Sidney Lane, Hove, writes: May I suggest that in the properties of the propertie

Legal Queries.

- T. A. M. (29/12) asks what is the legal definition of "goodwill" in connection with the sale of a business. [There is no statutory definition of "goodwill," although it has been defined upon several occasions judicially. Judges have described it as "the probability that the old customers will resort to the old place," as "the attractive force which brings in custom," and in many other ways. Goodwill is, in fact, the benefit arising from connection and reputation, although its precise scope naturally varies in individual cases.]
- C. C. G. (1/1) has an assistant who is being given a twoyears' training under the Government scheme provided for ex-soldiers. During his training he is paid 2l, a week by the Government and 10s, a week and a bonus by "C. C. G." Is it necessary for the man to be insured under the new Unemployment Insurance Act? [The Act does not exempt from the liability to insurance ex-soldiers who are being trained under the Government scheme. If, however, a person is in receipt of a permanent pension or independent income of 26l, or more, it is open to him to apply for exemption; but even if exemption is granted, the employer remains liable to pay his own contributions.]
- H. W. W. (31/12) has received from the Clearing Office for Enemy Debts a demand for payment of an account for goods supplied by a German firm before the war. In addition to the price of the goods the statement includes an amount representing 5 per cent. interest upon the price from November 1, 1914, until January 7, 1921. Can "H. W. W." successfully resist payment of interest? [Under the Treaty of Versailles it was provided that interest at the rate of 5 per cent. should be paid upon pre-war debts owing between British and German subjects. "H. W. W." is bound to pay the interest, but he should bear in mind that he has had the use of the amount upon which interest is claimed throughout the period in question.]
- R. B. H. (26/12) says he has just had a demand made on him to pay income-tax under Schedule A on the house in which he lives. His total income is such that the deductions and allowances for wife, children, and insurance bring him below the taxable limit. The house, which is owned by himself, is subject to a mortgage upon which he pays interest at the rate of 30l. per annum. He asks if he is liable to pay the income-tax demanded. [If in fact "R. B. H.'s" total income, including the annual value of the house as assessed to Schedule A, is within the exemption limit of 225l. after the allowances to which he is entitled for children, etc., are made, there is no liability to income-tax. But this does not apply to the 30l. mortgage interest. Whether "R. B. H." is or is not liable to income-tax on his own income, it is his duty to retain income-tax at the rate of 6s. in the £ on this 30l., and pay the tax so retained over to the tax collector. He need only pay to the mortgage creditor the interest, less the tax—that is, 21l. per annum.]
- N. R. (28/12).—A man died about thirty years ago. leaving certain house property to his widow for life, and after her death to their two children, with an ultimate remainder to more distant relatives and a charity, in the event of both children dying without issue. The widow is still living, and of the two children one is dead. The other child is married and has three children, of whom two are of age. The two trustces appointed under the will are dead, and others have not been appointed in their place, while the deeds of the property have been lost. Is it possible for the widow to sell the property? [Without seeing the will it is impossible to express any definite view upon the case, although it is probable that the property could be sold during the widow's lifetime. It would be essential, however, to have fresh trustees appointed in accordance with the terms of the will, and every effort should be made to trace the deeds, as their absence will seriously complicate the question of sale. It is essentially a case in which the matter should be placed in the hands of a solicitor.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J McB (10/11).—CHILBLAIN PAINT.—We think the formula for this given in the C. & D. Diary, 1918, is correct, as only a trace of castor oil is required as in flexile collodion.

W. P. (11/11).—Washing Powder.—The peculiar odour which is left in clothes after using soap powder is stated to be due to the coconut-oil soap employed. You might try the addition of verbena oil or eucalyptus oil to the powder, as both are likely to persist in the clothes after washing.

Alum (Johannesburg) (17/10).—Use of the Word Antiseptize.—We prefer asepticize, if either term is to be used, but cannot give a good reason why. Antiseptic means counteracting putrefaction; aseptic means not liable to putrefy. The difference, if any, is so small as to be negligible; and asepticism is defined as "aseptic or antiseptic treatment." Still, though synonymous, antisepticize seems to have a slightly more positive meaning, and to claim a more active resistance to putrefaction than could possibly be communicated by the preparation advertised. Asepticize seems to us preferable.

G. H. W. (30/12).—Aluminium Polish—The following are recommended for this purpose:

		1		
I.	1	H.		
Stearic acid	i part	Fine emery		1 part
Fuller's earth		Tallow		4 parts
Tripoli	6 parts	Turpentine		2 parts
They are best	applied with	a polishing brush	h.	

N. B. (29/12).—(1) STOMACH AND LIVER MIXTURE, C. d. D. Diary, 1904, No. 5:

mary, 1904, No. 5:		
	 	5j.
Sodii bicarb	 	5.j.
	 	5ij.
Tr. cardam. co.	 • • •	5iij.
Inf. gent. co. conc.	 	žss.
Inf. lupuli conc.		žss.
Tr. podoph	 	5ij.
Ag. menth. pip. ad	 	Zviii.

S. §ss. ter in die.

(2) COUGH-MIXTURE FOR CHILDREN, ('. & D. Diary, 1905:

Potass, nit.		 	gr. xL.
Ammon brom		 	5ij.
Ext. glycyrrh.		 	5j∙
Vin. ipecac.		 	5v.
Ol. anisi		 	щv.
Ol. anethi			mχ.
Liq. amm. ace			žiiss.
Tr. tolu		 	3iss.
		 	živ.
Oxy. scilke		 	5 ^v .
Aq. chlorof. a	d	 	žxij.
sce.			

Perplexed (1/1).—FILM DEVELOPER.—The stock developer employed for large quantities of films as given in the "Official Handbook of the British Photographic Manufacturers' Association" is as follows:

Metol			4 oz.
Hydroquinone			16 oz.
Sodium sulphite			24 lb.
	• • •		16 lb.
Sodium carbonate		• • •	
Pyrogallol		• • •	16 oz.
Water to make	1.50		$10 \mathrm{gal}$

Two gallons of this stock solution is diluted with water to fill a 45-gallon tank. This quantity lasts about two weeks, assuming that 480 spools per day are developed, and that after every batch of twelve rods developed 12 oz. of stock solution is added to the solution in the tank.

M. P. H. (29/12).—Embroidery Cloth.—We examined a sample of "vanishing cloth" as used for transferring embroidery patterns (C. & D., I., 1920, p. 394), but were unable to decide as to the method used in preparing it.

G. S. R. (1/1).—Nickel-plating.—The solution required for a nickel-plating bath is 12 oz. of nickel sulphate in a gallon of distilled water. The battery used is preferably of the Smee type with carbon negative. Nickel plates are used as the anodes and brass rods to suspend the articles in the bath.

G. W. (11/12).—Grate Polish in Paste-form: Good Ceylon graphite ... 25 lb. Lampblack 3 lb. Common treacle 1 lb. Soft soap 12 oz. Alum 2 oz.

Water 11 pints
Dissolve the soap and alum in separate portions of the
water. Pass the graphite and the lampblack through a fine
sieve and grind with the treacle, alum solution, and soap
solution until a homogeneous paste is formed.

J. T. J. (4/1).—Removing Tattoo Marks.—See C. & D., II., 1920, p. 1158.

M. M. A. (Beirut) (235/3).—HAIR-DVE.—We do not know the particular hair-dye to which you refer, but the following is one in which hydrogen peroxide is employed:

A.	₽.	
Copper chloride 5 oz.		
Solution of ammonia	Hydrochloric acid 221 c	Z.
(.880°) 5 oz.	Distilled water 32	oz.
Distilled water 11 oz.		

Add A to B, stirring constantly; then add very slowly, still stirring vigorously:

Solution of ammonia $(.959^{\circ})$ $6\frac{1}{2}$ oz.

And after well mixing:

Hydrogen peroxide (20 vol.) 16 oz.

and make up to 1 gallon with water. Keep for fourteen days in an open wide-mouth jar, stirring several times a day.

Dunna (23/12).—Manufacture of Aerated Waters.—There is a chapter in "Pharmaceutical Formulas" (C. & D. Office, 15%) devoted to this subject, which summarises the present processes of manufacture used in the mineral-water trade.

H. W. S. (6/12).—Dog Skin Powder.—The sample you send of powder used in water for applying to skin irritation in dogs, and which has attributed to it magical properties, appears to contain soap-powder and an earth (probably kaolin or talc), together with a little potassium nitrate and vegetable powder (probably white hellebore). The ash amounts to 39 per cent.

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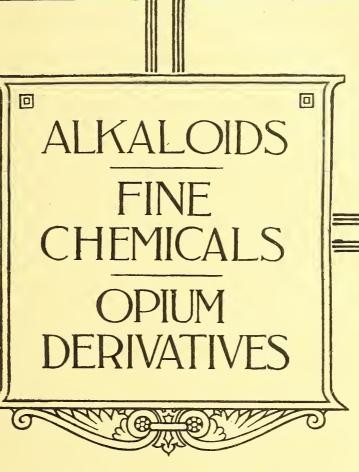
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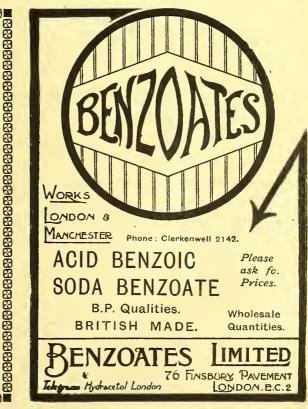
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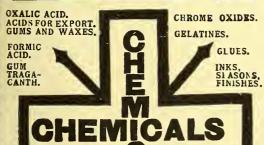
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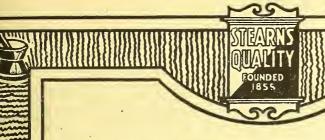
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Telegrams: "AMPSALVAS LONDON."

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AMBRINE.

A great advance in the treatment of burns (slight or severe). Gives immediate alleviation of pain. Also for Chilblains, Ulcers, &c.

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Compound Extract of Garcinia Treatment of Amebic Dysentery.

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Antiseptic. Disinfectant. Deodorant for Sick Rooms, Instruments, Bed-paus, &c.

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(LUMIERE). Ageneral Antipyretic Powerful Analgesic.
Supersedes Antipyrin, Phenacetin and Pyramidon.

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Specially prepared CHEMICAL Colloidal Copper for CANCER. Has given most encouraging results in a good number of cases.

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Intensive Strychno - Arsenical Medication for Pulmonary Tuberculosis, Syphilis, Pernicious Anæmia, &c.

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A successful Anti-Diabetic. Gives most satisfactory clinical results (formula given). Administered in Cachets.

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Elixir Bromo-Valerianate.

"Gabail" Valerianate with Stron-tium Bromide and Syrup of Orange,

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Organo-therapy Extracts of Internal Secretory Glands prepared in vacuo at freezing-point.

Tested as per L.G.B. Regulations.

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Salvarsan and Neo-Salvarsan substitute (Intravencus or Intramuscular). Effective and safe. Pro luces no undesirable effects.

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A combination of Hectine with Mercury. Intramuscular Injection; also in Pills and Drops.

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Anti-syphilitic. Low Arsenic percentage. Good results in Intractable Syphilis. Intramuscular Injection; also in Pills and Drops.

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The External Treatment of Skin Diseases.

Eczema, Psoriasis, Scabies, etc.

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The Internal Treatment of Chronic Dermatoses.

Promotes the elimination of Endogenous Toxins.

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Treatment of Staphylococcal Affections. Acne, Boils, Carbuncles, Styes, etc.

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Odourless. Tasteless. Supersedes the B.P. Tincture.

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An Elixir of Valerian containing Strontium Bromide.

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Quinine Salts are now Restricted.

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A Quinine Salt of Hectine. Prophylactive and Curative for Hay Fever, Rhinitis, Influenza.

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Stable Suppositories of "606" (French Manufacture).

Simple, effective, harmless.
Give excellent clinical results.

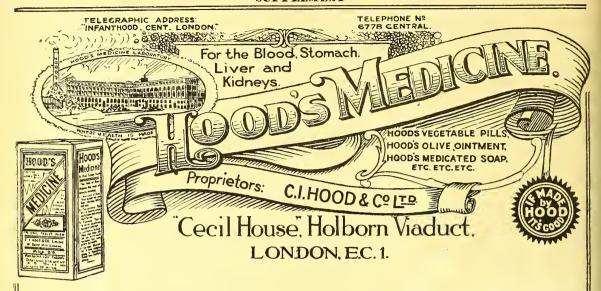
TRICALCINE.

Contains the pure phosphates of lime and magnesia.

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Composed of Urotropine and

Helmitol.
A powerful Urinary Antiseptic.
Dissolves and eliminates Uric Acid



"Genuineness" is the greatest asset a Proprietary Article can possess. this not so? It is the first principle in gaining satisfied customers. Because Hood's Medicine is "genuine" we are confident our efforts to increase its sales will meet with success. May we ask for your co-operation? The P.A.T.A. profit is assured and the goods cannot deteriorate. They are packed in glass bottles substantially wrapped. All our present advertising is directed to emphasising the *Tablet Form*. If you do not already stock, please send a small order for Tablets to your Wholesale House.

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KAY'S **Linseed Compound**

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- **C** Is a Household Remedy of sixty years' Reputation
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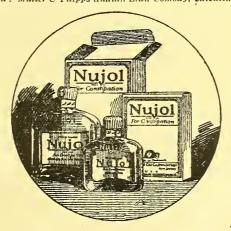
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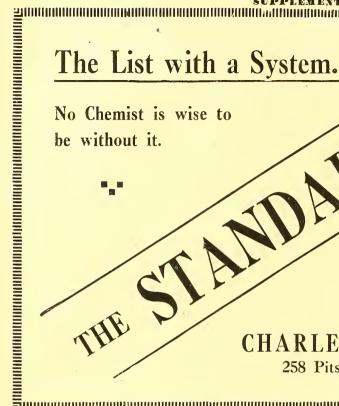
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258 Pitsmoor Road, Sheffield.

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113 Temple Chambers, Temple Avenue, E.C. 4

January 8, 1921.

The following revised prices are now in force:

Minimum Minimum Advertised Retail Price. Wholesale

"Allenburys" Jujubes and Pastilles-

2/9 $\frac{1}{2}$ -lb. tins 2/9 24/9 doz. 5/3 ., 1-lb. tins 5/3 47/3 ,, Medicated Throat Pastilles-3/9 $\frac{1}{2}$ -lb. tins 3/933/9 ,, 71-., 1-lb. tins - 7/-63/- ,,

Evans Sons Lescher & Webb's Preparations-

- 1/3 Antiseptic Throat Pastilles Less 5 % discount on £5 lots, monthly a/c.
- 1/9 Mellin's Feeding Bottle .. 1/9 *15/6 doz. Complete in cardboard box, with brush.

*The M.W.P. 15/- appearing in December "Anticutting Record " page 37 is a misprint for 15/6.



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Perfumery. Fine & Heavy Chemicals, etc. Representation and Buying undertaken for Foreign and Colonial Houses.

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Bonus of 101- on £5 worth for 14 days' Window Display Terms: Cash in one month. Orders carriage paid. Minimum Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

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Ure you reap Ask your Wholesale Dealer for the benefit of our nation wide advertising particulars We know that our extensive publicity has attracted the attention of many people from your own immediate neighbourhood to the merits of Kutnow's Powder by the fact that during the last month or so we have received requests for Free Samples from practically every district in the British Isles. A large percentage of those who have thus tested Kutnow's become regular users. Don't let your trade rival reap all the benefit. Stock to-day.

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WHOLESALE PRICES.

Beecham's Pills:

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1s. 3d. size 10s. 6d. per doz. net. 26s. 6d. ,, ,, 3s. 0d. "

Orders: Minimum quantity £5 value-approximately. | Packages FREE. Carriage PAID.

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Special quotat ons for quantities. Cicero S. Clark, 12 Richmond Rd., Bayswater, W.2.

(White or Coloured).
With inscriptions in any desired tint; also Plain or Embossed.

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These Cachets are especially adapted for Headache, Neuralgia and other powders.

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PUFFS of ALL KINDS in DOWN and WOOL SOLID FACE POWDERS

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The Dye with a Reputation for Reliability.

PERFUMERS! SHORTAGE OF LABOUR

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SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.
The only dye giving a natural gloss to the hair.

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"Abdine" is the most popular Health Drink, superior to all Mineral
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Wholesale Prices on application. Sample Box 1/6.

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2d. HERBS-

Insist on "Castle Brond,"

CULINARY MEDICINAL

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Special Terms for Wholesolers.

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Chartered Patent Agents.

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mends tears better than needle and thread, and does it more quickly. It is a thoroughly useful line to carry, and the profit is excellent. Send for particulars,
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FOR Rheumatism, Lumbago, Sciatica and ailments of a similar nature attendant upon the cold and wet weather of winter, GLOW-WELL LINIMENT is unsurpassed.

Its efficacy as a liniment lies in its warming and pain-drawing properties, obviating the necessity of vigorous rubbing, but producing a comforting and soothing warm glow.

Bronchitis, Coughs, Colds, etc., are also effectively treated both internally and externally by GLOW-WELL LINIMENT.

This is a profitable speciality, bringing repeat orders.

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10/3 doz.

Less 5% discount in Account.

A Chemist writes:

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Showcard Free for any quantity.
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White, Yellow, Amber, & Ruby Red, for all Pharmaceutical Veterinary purposes

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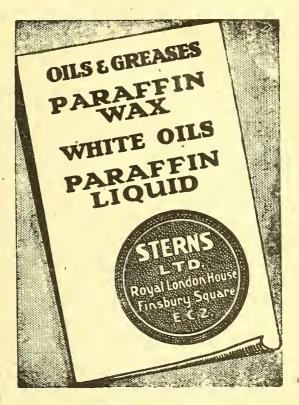
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Soluble in Water, Spirit, Oil, Turps, Benzoline, Glycerine, Wax, Naphtha, Petroleum, Creosote, in fact—anything.

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Combined Preservative and Stain for Wood.

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CARAMEL COLOUR

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Guaranteed Harmless.

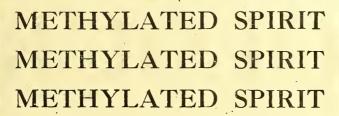
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RHEUMSOL BATH SALTS in 1/- tins

WILLIAMS BROS. & CO.

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Finest British Distilled Spirit.

Quality is Vital.

Direct from the Fountain Head.

No other make is equal to ours.

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MALT EXTRACT

COD LIVER OIL

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Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only, MALT EXTRACT POWDER, MALT FLOUR for INFANTS' and INVALIDS' FOODS.

PAINE & CO., LTD., ST. NEOTS, HUNTS.



Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

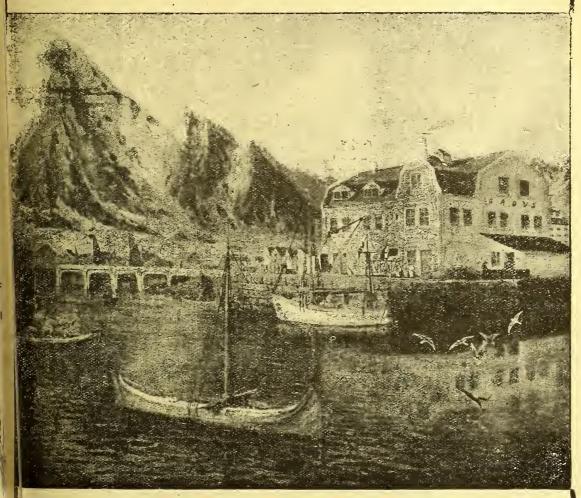
Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

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ERRY & HOPE, Ltd. "Perryope, Nitshill." "Perryope, Led, "Perryope, Led, London."

NITSHILL, near GLASGOW.

Gadus Cod Liver Oil.



View of the Gadus Cod Liver Oil Factory at Svolvaer, Lofoten Islands, Norway.

Gadus Cod Liver Oil is prepared by an entirely new process of manufacture, whereby the danger of premature oxidation is overcome, and, unlike most Cod Liver Oils, is of the highest degree of purity and entirely devoid of any objectionable smell or taste.

It has a slight pleasant, nutty flavour, peculiar to the fresh Cod Livers, and is easily taken by people with the most delicate palates.

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The Finest Quality Aerated Waters are made only with the Finest Quality ESSENCES

BOAKE ROBERTS

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon
Orange
Ginger
Raspheny
Strawbeny

Pineapple |

Ginger Ale
Stone Ginger (Cloudy
Clear Ginger Beer
Kola Champagne
Lime Juice and Soda
Lemon Squash, Vanillo

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Somsems

ICE-REFINED PURE NORWEGIAN

COD LIVER OIL

from the original factory at LOFODEN, NORWAY.

In Original Tin-Lined Barrels, Gallon Tins, Winchesters and Bottles,

Samples and Prices on application to the Sole Proprietors:

HERTZ & CO., 9 Mincing Lane, LONDON, E.C.3. Established 1878

Warehouses, Factory & Liboratory, 20 Bevis Marks.
Telephone: 10607 Central.
Telegrams: "Freshness Fen."

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OF FINEST

NORWEGIAN COD LIVER OIL

WITH

Hypophosphites of Lime and Soda. 25% 33\frac{1}{3}\% 50\%

In Bulk or in Bottles and Cartons. Samples and prices on application.

Manufactured by the Sole Proprietors:

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Established 1878

Warehouses, Factory & Laboratory, 20 Bevis Marks Telephone: 10607 Central Telegrams: "Freshness, Fen."

TRY THIS SELLING TALK FOR INCREASING SALES

THERE is an Art in Selling. Some have Salesmanship as a natural gift, others achieve it by study and practice.

There are schools and Postal Courses of Instructions in Salesmanship, at more or less costly fees, but the School of Experience is open to all Chemists and their Assistants. Salesmanship is an Art that is interesting, indeed. Studied and practised, it is as fascinating as it is highly resultful and profitable.

SOME SALESMANSHIP AMMUNITION

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HERE for example are some "Tips and Talks" for the increasing of sales of a regularly advertised line that repays 50% profit on cost, and which also creates valuable chemist—and customer—goodwill.

1. When a customer or enquirer asks for "Something for the Nerves," produce a tin of "Sanagen," at the same time pointing

out that as a Nerve Tonic Food it is British and was awarded the Gold Medal at the International Medical Congress held in London, 1913.

- 2. Next explain that it is a palatable combination of the concentrated Proteid extract of milk with Glycerophosphates, forming an organic tonic food of special value in the building up of the Nerves.
- 3. Then point out that the nerve weak need such a special enriching of their ordinary dietary with those finer food elements which go to the up-building of the nerves and the recruiting of their energy.
- 4. Here it is more than likely that the customer will ask as to price, which opens up the way for the statement that as many pounds spent in ordinary food could not supply the special nerve food obtainable in "San-a-gen" at the cost of shillings only.
- 5. After such "Sales Talk" the customer buys a 3/-, 5/- or 9/6

tin of "San-a-gen" and—here is a remarkable feature of good salesmanship—he or she will thank the Chemist or his Assistant who has thus demonstrated a desire to render an acceptably useful service.

At this stage it is Good Salesmanship and Good Service to recommend that the customer should continue the "San-a-gen" Nerve Tonic Food Treatment for a period of not less than a fortnight to six weeks—according to the needs of different customers.

The result is soon seen in Repeat Sales—and more thanks—because of the always-manifested good results of "San-a-gen" Nerve Tonic Food.

In many cases such Good Salesmanship and Service lead to the customer recommending "San-agen" to his friends, also to his or her saying a good word for the Chemist who thus demonstrated that he is more than a mere automatic machine handing over goods only minus goodwill and profitcreating Service.



Always Justifies Good Salesmanship and Service from both the Goodwill and Profit Points of View.

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"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

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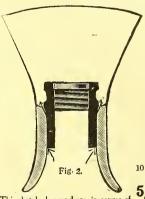
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NGRAM'S High Grade "Eclipse" Brand Rubber Hot Water Bottles are well known throughout the world for their reliability and construction; they have, as a result of the careful scientific manufacture, the distinct advantage of being suitable for use in any climate.

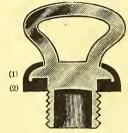
ALL "Eclipse" Bottles are now fitted with two important inventions: The Patent Rubber Covered Screw Stopper (No. 107940) and The Patent Constructed Neck (No. 118022).

The object of the Patent Rubber Covered Screw Stopper is to overcome the loss of washer and leakage. A glance at Fig. 1 shows the sectional view, the black solid parts representing the rubber covering gripping (1) the brass flange making it a fixture, so that no loss of washer is possible, the broad solid seating (2) when the stopper is screwed down renders it Absolutely Watertight. The effectiveness of the Patent Constructed Neck can be clearly seen by a comparison of Figs. 2 & 3. In addition to overcoming the old trouble of leaky necks, the new formation of the socket enables the bottle to be easily filled and without any fear of "splashing."

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This sketch shows where, in course of time, the action of water permeates, between the brass socket and rubber, 7/4 8/- 8/- 8/8 10/- 10/6 13/- 14/9



* Sizes, inches-10×6 10×8 12×6 12×8 14×8 12×10 14×12 16×12

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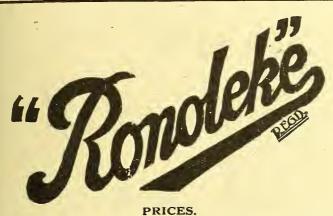
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The Hot Water Bottle that Cannot Leak

Rounded FLANGE

of screw top engaging...

ON ACCOUNT OF THIS ONE FEATURE ALONE THE "RONOLEKE" WILL OUTLAST THREE ORDINARY HOT WATER BOTTLES.

Rubber FLANGE at base of funnel.
This 3/16 inch flange of built-up rubber acts as a washer, but is far more durable.

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METAL FLANGE
of socket embedded
in built-up rubber.

Aperture at base of funnel. This makes the funnel a real funnel. There is no water left after filling.

Projecting LUGS of patent socket embedded in built-up rubber, preventing the socket from revolving when tightening up or removing screw top.

Built-up RUBBER firmly joined to body of bottle, so that not a particle of water can leak through. It holds socket securely in position without wiring.

Study
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diagram;
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SEAMLESS ENEMAS

		Per doz	- s.	d.
Fig. 987.	The "B.E.M." (best English make) with bone rectal pipe, etc., complete in a	card box	26	0
	,, in superior card box		29	0
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	extra large and stout, the finest article made		36	0
	Special Line, red unpolished, stout, in card box		30	G
•	in leatherette case		36	0
988.	The "Empire," black polished in card box -		30	0
	in leatherette case		36	0
275.	TITE AND A STATE OF THE STATE O		42	0
	in leatherette case	_	48	0

AIR CUSHIONS

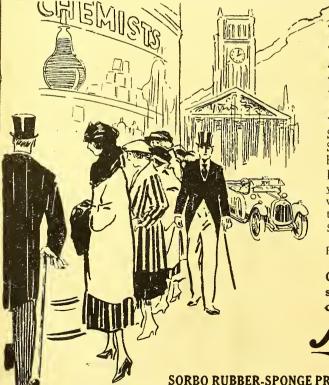
Fig. 1194. The "Empire" red indiarubber Air Cushion

Diameter ·	- 14 in.	15 in.	16 in.] 17 in.	18 in.	19 in.	20 in.
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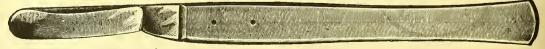
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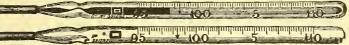
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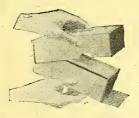
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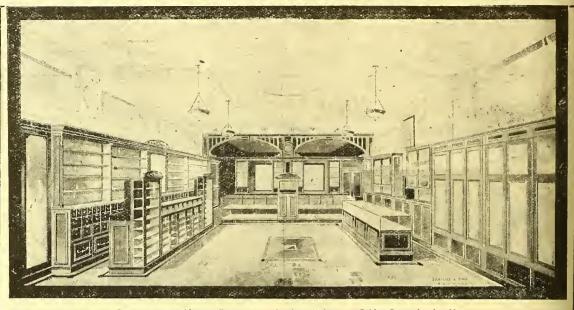


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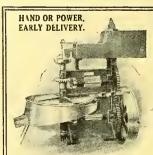
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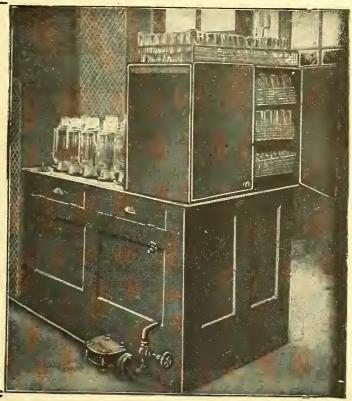
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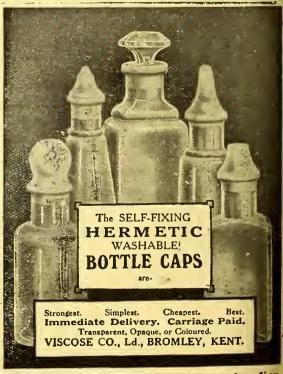
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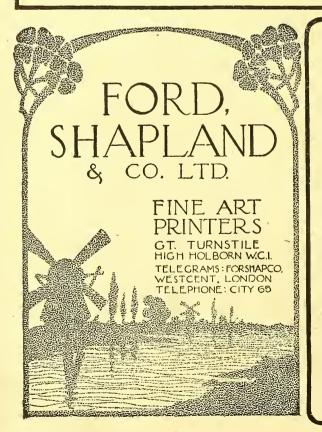


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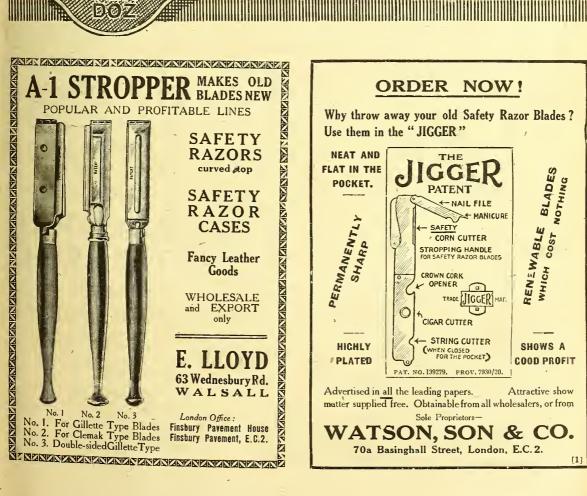
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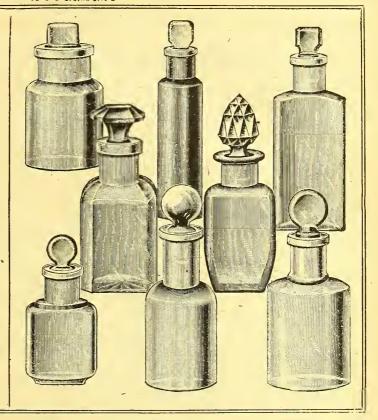
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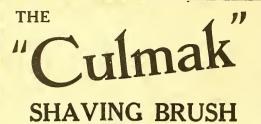
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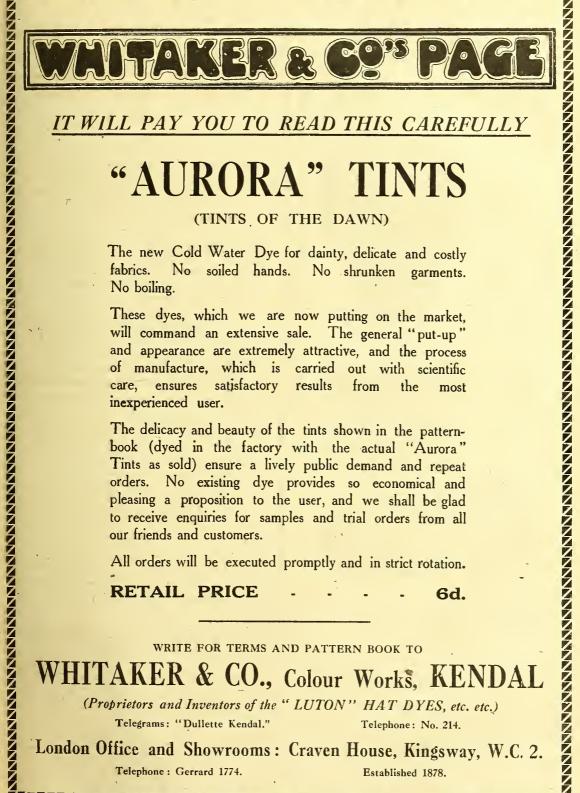
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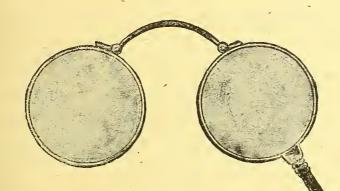
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GVTS required, on commission, who can secure substantial ders for Powder Puffs and Handkerchief Puffs. Turner & 2 Penton Street, London, N.

Toffer Pills and Tablets at competitive prices; splendid ost ts. C. F. (48/26), Office of this Paper.

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WILL Frank Stanley Milward, the eldest son of the late Thomas Milward, of 148 St. Helen's Road, Swansca, and formerly of Norton Lodge, Oystermouth, near Swansca, Engineer, deceased, or his children or friends, communicate immediately with the Public Trustee, Kingsway, London, or with D. Walters Rees, Solicifor, Bridgead, Glamorganshire?

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WHOLESALE or Manufacturing Chemists desiring amalgamation with existing Manufacturer having sound connection are asked to communicate with P.C.B. 49/37, Office of this Paper.

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PHARMACY required at once; South Wales or West of England; cash available about £1,000. Full particulars in confidence to Edwards, 48 Mardy Road, Mardy, Glamorganshire.

REQUIRED, to purchase (now or later) in Western or Southern half of England or on the coast, a genuine Business of sufficient size to keep good Assistant; Wholesale and banker's references exchanged; preliminaries in strict confidence. "M.P.S.," 9 Steep Hill, S.W. 16.

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PARTNERSHIP required in Chemist's business, or would buy small one outright. Reply, with preliminary particulars in confidence, to 271/35, Office of this Paper.

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ROLKESTONE.—Outdoors; qualified Assistant, principally for Counter work; middle-class cash business. Apply, giving full particulars and salary required, to Hook, Chemist, Dover Road.

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TONDON, N.W. Junior Assistant (male), outdoors, required for good-class Retail and Dispensing business. Apply by letter, giving full particulars as to age, experience, references, and salary required, to C. B., 20 New Street, Dorset Square, N.W. 1.

ONDON, N.W.—Competent Junior; Retail and Dispensing, unqualified, or Student, part time, afternoon and evening. Apply W. Brown, 1 King's College Road, N.W. 3.

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SOUTH OF ENGLAND.—Assistant required, permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHPORT.—Energetic young qualified Assistant wanted (at once) for brisk trade; able to manage; good position for suitable man; applications unanswered in four days, consider vacancy filled. E. L. Lea, Chemist, Southport.

A YOUNG Assistant wanted, having knowledge of Dispensing and Counter trade. Please give particulars of experience and salary required, with photo, if possible. Applications not answered in four days declined. W. W. Franklin, Pharmacist, 411 Osmaston Road, Derby.

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A SSISTANT for good-class business; permanency; must be careful Dispenser, smart Counterman, and well up in Photographic work. 271/7, Office of this Paper.

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CAPABLE, qualified Assistant; single; must have had good experience; Counter, Dispensing, and Photographic. Apply 271/34, Office of this Paper.

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ADY Assistant wanted for middle-class trade (Counter at Dispensing). Apply, giving experience, references, as salary required (outdoors), to A. F. Golden, Chemist, Lever hulme, Manchester.

PROFITABLE spare-time work (clerical); stamp. G. L. (Ltd., 24 Bishop's Road, Fulham, S.W.

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UNQUALIFIED Assistant; thorough knowledge of Phot graphic dealing essential; good Salesman and Windo dresser; no Dispensing; no Sunday duty. Full particulars Bathe's Drug Stores, 24 Fleet Street, Torquay.

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UNQUALIFIED Junior Assistant wanted for first-class Disper ing and Counter; permanency if suitable; hours 8.30 to Thursday 1, Saturday 9; 2½ hours alternate Sunday dut McKinnell, Chemist, Northampton.

WANTED (immediately), Assistant; male, single; outdoor references essential; please state full particulars in first lett W. J. Green, Chemist, Trowbridge, Wilts.

WANTED, qualified lady Assistant, chiefly for N.H.I. wor in East London business; knowledge of Counter not essetial, but opportunity afforded of acquiring it. Usual particlars and salary required to P.C.B. 49/21, Office of this Paper.

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SINGAPORE—Qualified Assistant required; unmarried; four years agreement; passage paid out and home; salary first year £400, second £450, third £500, fourth £550; applicant must hold first-class credentials; preference given to one possessing experience in Optics. Apply 48/23B, Office of this

TRAITS SETTLEMENTS.—Required (immediately), Assistant, young, unmarried, with Chemist's and Optician's qualifications; four years' agreement; passage paid out and home; salary first year £560, second year £630, third and fourth years £700; six months' leave of absence on full pay at end of agreement if same is renewed. Apply "W. C. H.," o/o Burgoyne Burbidges & Co., Ltd., East Ham, E. 6.

SITUATIONS WANTED.

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- WOOTTON'S "Chronicles of Pharmacy." Woodward, cist, Weymouth.

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 HAND or Hand and Power Tablet Machine, up to 1:n. I perfect condition. 274/21, Office of this Paper.

 COPPER STILL for water, perfect condition; also about Motor. State capacity and price, Brownbill, Woodhouse Leeds.
- WANTED, Gardner Patent Rapid Sifter and Mixer; also Machine. State size, style, and condition, to 13/286, this Paper.
- MAHOGANY Silent Salesman, 6 ft. x 24 in. sq.; 2 or glass shelves. State lowest price to T. Bellsmy, Chelmsford.
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 RADIUM SALT, pure or Residues, old Applicator Apply Harrison Glew, Radium Laboratories, 156 Road, S.W. 9.

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The prices, as from January 1, 1921, are

SIZE				FACE VALUE and MIN. RETAIL PRICE P.A.T A.	WHOLESALE PRICE Per Dozen.
SMALL	•••	•••		1/6	12/6
MEDIUM		•••	•••	2/6	20/-
LARGE		•••	•••	3/9	32/-

These figures show a good profit to the Retailer, and we hope to have the co-operation of our friends in extending the sales of the product.

Showcards, Booklets, &c., are available upon application.

22-30, Graham Street, City Road, LONDON, N.I.

